REPORT ON
QUARTERLY GROUNDWATER MONITORING
THIRD QUARTER 2008, JULY THROUGH SEPTEMBER 2008
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

for

The Boeing Company,
National Aeronautics and Space Administration (NASA),
and
U.S. Department of Energy (DOE)
Canoga Park, California

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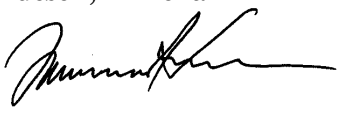

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TABLE OF CONTENTS

		Page
LIST OF TABLES		**iii**
LIST OF FIGURES		**iv**
1.	**INTRODUCTION**	**1**
1.1	Report Organization	2
2.	**GROUNDWATER MONITORING**	**3**
2.1	Groundwater Elevations and Flow Conditions	3
2.1.1	Near-Surface Groundwater	3
2.1.2	Chatsworth Formation	4
2.1.2.1	Groundwater Elevations and Flow Conditions	4
2.2	Groundwater Quality Results	5
2.2.1	Near-Surface Groundwater	8
2.2.1.1	LUFT Program	8
2.2.1.2	Evaluation Monitoring Program/Interim Corrective Action Program	9
2.2.1.3	Point of Compliance Program	10
2.2.1.4	Near-Surface Groundwater Radiochemistry Analyses	10
2.2.1.5	Other Monitoring	12
2.2.2	Chatsworth Formation	15
2.2.2.1	LUFT Program	16
2.2.2.2	Detection Monitoring Program	17
2.2.2.3	Evaluation Monitoring Program/Interim Corrective Action Program	20
2.2.2.4	Point of Compliance Program	21
2.2.2.5	Chatsworth Formation Radiochemistry Analyses	21
2.2.2.6	Chatsworth Formation Operable Unit Constituents of Concern Analyses	24
2.2.2.7	Monitoring of Perimeter Wells and Private Off-Site Wells and Springs	26
2.2.2.8	Other Monitoring	26
2.2.3	Perchlorate Characterization Sampling	29
2.2.3.1	Monitoring	30
2.2.3.2	Perchlorate Results	30
2.2.3.3	Bromide Results	31
2.2.3.4	General Mineral Results	31
2.2.3.5	Stable Isotope Results	32
2.2.4	Results of Third Quarter 2008 Verification Sampling	32
2.2.5	Proposed Fourth Quarter 2008 Groundwater Monitoring Schedule	32
3.	**REMEDIAL SYSTEMS**	**34**
3.1	Remedial Systems Activities	34
4.	**SURFACE WATER DISCHARGE**	**35**

TABLE OF CONTENTS
(continued)

	Page
REFERENCES	**36**

TABLES
FIGURES
APPENDIX A - Quality Assurance Assessment

LIST OF TABLES

Table No.	Title
I.	Well Construction Data
II.	Summary of Water Level Data, Third Quarter 2008
III.	Summary of Analyses for Volatile Organic Compounds in Shallow Wells, Third Quarter 2008
IV.	Summary of Analyses for Volatile Organic Compounds in Chatsworth Formation Wells, Third Quarter 2008
V.	Summary of Analyses for Fuel Hydrocarbons, Third Quarter 2008
VI.	Summary of Analyses for Radionuclides, Third Quarter 2008
VII.	Summary of Analyses for Metals, Third Quarter 2008
VIII.	Summary of Analyses for Semi-Volatile Organic Compounds, Third Quarter 2008
IX.	Summary of Analyses for Perchlorate, Third Quarter 2008
X.	Summary of Analyses for Constituents of Concern and Perchlorate, Third Quarter 2008
XI.	Summary of Analyses for Inorganic Constituents, Third Quarter 2008
XII.	Summary of Analyses for Dioxins/Furans and Polychlorinated Biphenyls, Third Quarter 2008
XIII.	Summary of Analyses for Hydrazines and Surfactants, RCRA Facility Investigation, Third Quarter 2008
XIV.	Summary of Groundwater Extractions for Permitted Groundwater Remediation Facilities, Third Quarter 2008
XV.	Summary of Water Quality Results for Permitted Groundwater Remediation Facilities, Third Quarter 2008
XVI.	Summary of Extraction Well Water Levels and Flow Rates, Third Quarter 2008

LIST OF FIGURES

Figure No.	Title
1.	Locations of Wells, Springs, and Groundwater Reclamation Components
2.	Locations of Piezometers
3.	Chatsworth Formation Water Level Elevation Contour Map – July 2008
4.	Location of Referenced Site Features

LIST OF ACRONYMS AND ABBREVIATIONS

AAL	archived advisory level
CCR	California Code of Regulations
CFOU	Chatsworth Formation Operable Unit
cis-1,2-DCE	cis-1,2-dichloroethene
COC	constituent of concern
DMR	Discharge Monitoring Reports
DOE	(United States) Department of Energy
DPH	(California) Department of Public Health
DTSC	(California) Department of Toxic Substances Control
EFH	extractable fuel hydrocarbons
ELV/B204	Expendable Launch Vehicle / Building 204
EPA	(United States) Environmental Protection Agency
ETEC	Energy Technology Engineering Center
FLUTe	Flexible Liner Underground Technologies, LLC
FSDF	Former Sodium Disposal Facility
GRO	gasoline range organics
GWRC	Groundwater Resources Consultants, Inc.
K-40	potassium-40
LC	liquid chromatography
LCS/LCSD	laboratory control sample/laboratory control sample duplicate
LUFT	leaking underground fuel tank
MCL	maximum contaminant level
MDA	minimum detectable activity
MDL	method detection limit
mg/L	milligrams per liter
MS	mass spectrometry
MS/MSD	matrix spike/matrix spike duplicate
MSL	mean sea level
NDMA	n-nitrosodimethylamine
NL	notification level
NPDES	National Pollutant Discharge Elimination System
OCDD	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin
OCDF	1,2,3,4,6,7,8,9-Octachlorodibenzofuran
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
pCi/L	picoCuries per liter
per mil	parts per thousand
pg/L	picograms per liter
QAPP	Quality Assurance Project Plan
QA/QC	quality assurance and quality control
Ra-226	radium-226
Ra-228	radium-228
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RMHF	Radioactive Materials Handling Facility
RPD	replicate percent difference
SAP	Sampling and Analysis Plan

LIST OF ACRONYMS AND ABBREVIATIONS
(continued)

SDG	sample delivery group
SDWA	Safe Drinking Water Act
SSFL	Santa Susana Field Laboratory
SMOU	Surficial Media Operable Unit
Sr-90	strontium-90
STL-IV	Systems Test Laboratory - IV
SVOC	semi-volatile organic compound
TCE	trichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
μg/L	micrograms per liter
USEPA	United States Environmental Protection Agency
UV	ultra-violet
VOC	volatile organic compound
V-SMOW	Vienna Standard Mean Ocean Water
1,2,3,4,6,7,8-HpCDF	1,2,3,4,6,7,8-Heptachlorodibenzofuran
1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8,9-Heptachlorodibenzofuran
1,2,3,4,7,8-HxCDF	1,2,3,4,7,8-Hexachlorodibenzofuran
1,2,3,6,7,8-HxCDF	1,2,3,6,7,8-Hexachlorodibenzofuran
1,2,3,6,7,8-HxCDD	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
2,3,4,6,7,8-HxCDF	2,3,4,6,7,8-Hexachlorodibenzofuran
2,3,4,7,8-PeCDF	2,3,4,7,8-Pentachlorodibenzofuran
2,3,7,8-TCDD	2,3,7,8-Tetrachlorodibenzo-p-dioxin
2,3,7,8-TCDD TEQ	2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalency

1. INTRODUCTION

This report summarizes the groundwater monitoring and groundwater extraction/treatment activities conducted July through September 2008 at the Santa Susana Field Laboratory (SSFL) located in Ventura County, California. This report is intended to fulfill the requirements of multiple regulatory programs being implemented at SSFL. These include requirements addressed in the Post-Closure Permit monitoring program approved by the California Environmental Protection Agency Department of Toxic Substances Control (DTSC) and the Leaking Underground Fuel Tank (LUFT) monitoring program overseen by DTSC. Specific requirements include performance of detection monitoring, evaluation monitoring, and interim corrective action monitoring as described in the SSFL (Facility) Post-Closure Permits and per the requirements of Title 22, California Code of Regulations (22 CCR), sections 66264.97 through 66264.99. The monitoring also complies with the Consent Order for Corrective Action issued on 16 August 2007 by DTSC (2007).

Monitoring activities conducted during the quarter included:

- measurement of water levels
- collection and laboratory analysis of groundwater samples
- measurement of groundwater extraction/treatment system water levels, pumping rates, and volumes

Historical data were summarized in previous reports by Groundwater Resources Consultants (GWRC, 2000) and Haley & Aldrich (2001 through 2008a, 2008c, 2008e).

The scope of this quarterly report includes the following as required per the Post-Closure Permits and 22 CCR, sections 66264.97 through 66264.99:

- summary of water level measurements
- discussion of the rates and direction of groundwater movement
- summary of results of laboratory analyses of water samples
- summary of groundwater extraction volumes and extraction well water levels and flow rates
- summary of results of laboratory analyses of permitted treatment system influent and effluent water samples
- a groundwater elevation contour map of the Chatsworth Formation water table surface for July 2008

Haley & Aldrich collected additional groundwater data in the third quarter 2008 as part of the Surficial Media Operable Unit Resource Conservation and Recovery Act (RCRA) Facility Investigation (SMOU RFI), the Chatsworth Formation Operable Unit (CFOU) RFI (Montgomery Watson, 2000b), and the Perchlorate Characterization Work Plan (MWH, 2003e). Groundwater samples were also collected for the analysis of radionuclide activities in select Area IV wells for the United States Department of Energy (DOE) and the Energy Technology Engineering Center (ETEC).

One new Chatsworth Formation well, RD-98, was constructed during June 2008 at the former Radioactive Materials Handling Facility (RMHF) Leach Field. Three new shallow wells, SRE-NS-E, SRE-NS-N, and SRE-NS-W, were constructed during June 2008 (Haley & Aldrich, 2008d). Twenty piezometers were constructed in April through July 2008.

1.1 Report Organization

Groundwater monitoring results, including analytical results and water levels, are presented in Section 2. Section 3 discusses remedial systems at SSFL, and Section 4 relates to surface water discharge monitoring at National Pollutant Discharge Elimination System (NPDES) Outfalls 001 and 002.

2. GROUNDWATER MONITORING

This section presents a discussion of groundwater levels and analytical results from the third quarter 2008 groundwater sampling event conducted at SSFL. Monitoring wells are scheduled to be sampled quarterly, semiannually, or annually in accordance with the current Sampling and Analysis Plan (SAP) for the Facility (GWRC, 1995a, 1995b). The exceptions include former water supply wells, wells where Westbay or FLUTe systems are installed, and piezometers. Figure 1 shows the locations of the wells. Figure 2 shows the locations of piezometers, except for new piezometers PZ-128 through PZ-148 for which survey data are pending. Groundwater elevation contours for the first-encountered water in the Chatsworth Formation, as determined from groundwater levels measured during the third quarter 2008 monitoring event, are shown in Figure 3.

Additional subsurface investigations are being conducted at SSFL as part of ongoing programs. As a result of these ongoing investigations, additional information on site geology and groundwater conditions becomes available. To the extent possible, this new information is incorporated into quarterly and annual groundwater monitoring reports.

The following subsections provide a review of groundwater levels, and groundwater quality results and trends. Well construction details are summarized in Table I. Groundwater quality results and trends, as presented in Tables III through XIII, are discussed in Section 2.2.

2.1 Groundwater Elevations and Flow Conditions

Groundwater occurs at SSFL in the alluvium, weathered bedrock, and unweathered bedrock (Montgomery Watson, 2000a). First-encountered groundwater may be observed in any of these media under water table conditions. For the purposes of this report, "near-surface groundwater" is defined as groundwater that is present in the alluvium and weathered bedrock, and groundwater that occurs in the unweathered bedrock is referred to as "Chatsworth Formation groundwater".

Near-surface groundwater is indicated to have a limited areal extent at SSFL, typically occurring in alluvial drainages (topographic lows) and valleys (e.g., Burro Flats in Area IV, Figure 4). At some locations within SSFL, where near-surface groundwater exists, the near-surface and Chatsworth Formation groundwater appear to be vertically continuous and not separated by a vadose zone (MWH, 2003d).

Based on data collected to date, perched groundwater is also indicated to exist at locations within SSFL (MWH, 2003d). At these locations, a vadose zone within the Chatsworth Formation apparently separates near-surface and Chatsworth Formation groundwater. Groundwater data collection and analysis is ongoing and interpretations of existing hydrogeologic conditions will be modified appropriately.

2.1.1 Near-Surface Groundwater

Near-surface water level measurements were conducted at 92 of the 95 shallow wells, and at the ECL French Drain and ECL Sump during the third quarter 2008 (Table II). During the quarter, water levels were also measured at 37 of the piezometers installed at the Facility (Table II). Near-surface groundwater level elevations in shallow wells were generally lower during the third quarter 2008 than during the second quarter 2008 (Haley & Aldrich, 2008e).

Near-surface groundwater is indicated to occur in Quaternary alluvium distributed primarily in the Burro Flats area (Figure 4) and along ephemeral drainages, and in the upper weathered portion of the Chatsworth Formation. The alluvium is indicated to generally consist of unconsolidated sand, silt, and clay. This occurrence of near-surface groundwater is discontinuous at the Facility. Some portions of the alluvium and upper weathered Chatsworth Formation are saturated only during and immediately following a wet season.

Discharge of water to Facility storage reservoirs and channels as part of site operations can affect groundwater levels in shallow wells. Most of these types of discharges have ceased.

Water level data from shallow wells continue to indicate that near-surface groundwater movement is generally a reflection of surface topography. Groundwater movement within the canyon areas is generally indicated in the same direction as surface flow in the canyons. Downward vertical movement of near-surface groundwater into the Chatsworth Formation bedrock is also indicated to occur (MWH, 2003d).

2.1.2 Chatsworth Formation

The principal water bearing system at the Facility is the fractured Chatsworth Formation, predominantly composed of weak- to well-cemented sandstone with interbeds of siltstone and claystone. Several hydraulically significant features such as fault zones and shale beds are present at SSFL and may act as aquitards or otherwise influence the groundwater flow system (Montgomery Watson, 2000a; MWH, 2002, 2007b).

2.1.2.1 Groundwater Elevations and Flow Conditions

Water level elevations were measured during the third quarter 2008 at 158 of the 163 Chatsworth Formation monitor wells (Table II).

Static depths to water in Chatsworth Formation wells measured during the quarter ranged from above land surface at artesian wells RD-59B, RD-59C, RD-68A, and RD-68B to approximately 466 feet below land surface at OS-25. Water level elevations measured in Chatsworth Formation monitor wells during the quarter ranged from approximately 1,225 feet above mean sea level (MSL) at well RD-75 to about 1,894 feet above MSL at well RD-42 (Table II, Figure 3).

Discrete depth-interval water level data from FLUTe-equipped wells were collected by dataloggers and are presented in Table II. Access to manually measure water levels was not available at these wells.

The water level contour map, presented as Figure 3, was prepared using July 2008 water level elevations from the shallowest well in each Chatsworth Formation well cluster, and from individual Chatsworth Formation wells at non-cluster locations.

Chatsworth Formation water level elevations during the third quarter 2008 were generally lower than second quarter 2008 water level elevations (Haley & Aldrich, 2008e). As noted above, ongoing field investigations have resulted in the installation of several multi-port sampling devices (FLUTe and Westbay systems) in wells in the Former Sodium Disposal Facility (FSDF) area, and the northwest and northeast portions of SSFL (Figure 4). The elevation of first water in the multi-port devices in some wells appears to vary from that previously observed in the open well boreholes.

The groundwater elevation contour map, Figure 3, is provided to satisfy in part the requirements of 22 CCR, section 66264.97 for determining groundwater flow rates and directions. A groundwater elevation contour map can be used in simple hydrogeologic settings to depict variations in the elevation of the water table surface, which can in turn be used to interpret apparent relative directions of groundwater flow. However, the groundwater elevation contours depicted in Figure 3 are not used to infer groundwater flow directions or rates of groundwater movement for the following reasons, among others:

- Several hydraulically significant features such as fault zones and shale beds are present at SSFL and may act as impediments to groundwater flow across them. Accordingly, while significant variations in the elevation of groundwater are present at SSFL, these differences may not necessarily indicate preferred directions of groundwater flow.

- Some water level elevations depicted may not represent the elevation of the first occurrence of groundwater due to the relatively long, open intervals of some of the monitoring wells. The water levels shown represent average heads over the screened or open interval.

- Groundwater flow directions and rates in fractured rock are likely influenced by the bedrock fracture network and characteristics of the bedrock matrix and possibly the orientation of structural features and stratigraphy.

2.2 Groundwater Quality Results

This section summarizes the results of quarterly groundwater sampling and analysis for the third quarter 2008. The groundwater monitoring program at SSFL fulfills the requirements of multiple regulatory programs prescribed by:

- the Post-Closure Permits (DTSC, 1995);
- Class 1 and Class 2 Permit Modifications of the Post-Closure Permits (DTSC, 2001);
- the LUFT program overseen by DTSC;
- various characterization efforts conducted at SSFL including the CFOU RFI groundwater investigation (Montgomery Watson, 2000b), the Happy Valley Interim Measures project (MWH, 2003f), the Perchlorate Characterization program (MWH, 2003e), the SMOU RFI program (Ogden, 2000), the Area IV tritium investigation; and
- the Consent Order for Corrective Action issued on 16 August 2007 by DTSC (2007).

The Post-Closure Permit monitoring programs include the Evaluation Monitoring Program and the Detection Monitoring Program. The Evaluation Monitoring Program requires semiannual sampling of point of compliance wells, evaluation monitoring wells, and interim corrective action wells for the analysis of volatile organic compounds (VOCs; Tables III and IV) (DTSC, 2001). Detection monitoring wells, including background wells, are scheduled for quarterly sampling for the analysis of VOCs (DTSC, 2001). At five-year intervals, the Post-Closure Permit requires constituent of concern (COC) monitoring at wells in the Evaluation Monitoring and Detection Monitoring Programs. The next five-year COC monitoring required by the 1995 Post-Closure Permits is scheduled for 2010.

In this report, groundwater sampling results from Facility wells are compared to regulatory limits for discussion purposes. For those compounds or water quality constituents that have drinking water Maximum Contaminant Levels (promulgated by the Safe Drinking Water Act [SDWA] and 22 CCR, sections 64431 through 64449 and 64672), the primary Maximum Contaminant Levels (MCLs) are used for comparison (California Department of Public Heath [DPH], 2007b). Some COCs do not have associated MCLs but have notification levels (NLs) that are used for comparison and discussion. NLs are health-based advisory levels established for chemicals in drinking water for which there are no formal MCLs. California water purveyors are required to advise their customers of the presence of these chemicals in drinking water when concentrations are at or above NLs. If concentrations of these chemicals exceed 10 or 100 times the NLs, water purveyors are required to remove the water source from their distribution system (DPH, 2007c). Some chemicals have archived advisory levels (AALs) which have the same requirements and recommendations as for notification levels (DPH, 2007a). It is important to note that groundwater at SSFL is not used as a drinking water supply. References to AALs, MCLs, and NLs are for purposes of discussion only.

Reporting requirements in the Post-Closure Permits call for posting of water quality results above method detection limits (MDLs). Analytical results with concentrations greater than the MDL but less than the reporting limit are qualified (flagged as estimated with a "J") to indicate the uncertainty associated with the quantification of these data. Because the currently approved Sampling and Analysis Plan (SAP) calls for analytical methods which are not sufficiently sensitive to detect constituents of concern 1,4-dioxane and n-nitrosodimethylamine (NDMA) (EPA Methods 8260 and 8270C, respectively) at the California Department of Public Health (DPH) notification levels (NLs) for these compounds, Boeing has added the use of more sensitive DPH approved analytical methods, including EPA Methods 8260-SIM for 1,4-dioxane and EPA Method 1625M for NDMA.

Boeing has performed quality assurance and quality control (QA/QC) analyses to assess the presence of NDMA in water samples, laboratory-supplied trip blanks, field blanks, locally-supplied municipal drinking water, and method blanks. The analytical results produced from this additional QA/QC sampling have indicated that NDMA is detected in QC samples at concentrations below the NL of 0.010 micrograms per liter (μg/L), but above the MDL, indicative of the introduction of the compound from field sampling procedures or analytical laboratory processes, thus leading to false positive readings. To minimize the reporting of false positive readings, NDMA analytical results from EPA Method 1625M were previously presented at the reporting limit of 0.010 μg/L. Continuous process improvements in the field and laboratory procedures have reduced the magnitude and frequency of detects in QC samples. As a result, NDMA results from EPA Method 1625M are now presented at the reporting limit of 0.005 μg/L.

Pursuant to the groundwater monitoring program, groundwater samples were collected during the third quarter 2008 from shallow and Chatsworth Formation wells and off-site wells.

Pursuant to the monitoring program for the third quarter 2008, laboratory analyses were performed to determine the concentration of:

- volatile organic compounds (VOCs)
- fuel hydrocarbons
- radionuclides (gross alpha, gross beta, plutonium, radium, strontium, tritium, thorium, uranium, and gamma-emitting radionuclides)
- metals
- semi-volatile organic compounds (SVOCs)
- polynuclear aromatic hydrocarbons (PAHs)
- nitroaromatics and nitramines
- perchlorate
- constituents of concern
- inorganic constituents
- dioxins and furans
- polychlorinated biphenyls (PCBs)
- hydrazines
- surfactants

Inorganic constituents included:

- major cations (calcium, magnesium, potassium, and sodium)
- major anions (bicarbonate, carbonate, chloride, nitrate, and sulfate)
- total dissolved solids
- pH
- specific conductance
- alkalinity
- turbidity
- fluoride
- bromide

Metals included antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc. As part of the SMOU RFI groundwater investigation, hexavalent chromium, aluminum, boron, magnesium, strontium, tin, and zirconium were analyzed in select samples.

Water quality results for groundwater samples are tabulated in Tables III through XIII.

Monitoring for the various characterization efforts in progress at SSFL was conducted during the third quarter 2008 as follows:

- As part of the CFOU RFI groundwater investigation, a number of wells were monitored for constituents of concern and perchlorate (Table X).

- As part of the Happy Valley Interim Measures project (MWH, 2003f), perchlorate and bromide were analyzed in groundwater samples collected from wells in the vicinity of the biotreatment area located near former Building 359 (Tables IX and XI). Former Building 359 is located along Area I Road approximately 175 feet east southeast of well HAR-25 (Figures 1 and 4).

- As part of the Perchlorate Characterization Work Plan (MWH, 2003e), groundwater samples were collected from private wells located off-site and Facility monitoring wells for the analysis of perchlorate and inorganic constituents (Tables IX and XI). Also, groundwater samples collected at well OS-09 were analyzed for stable hydrogen and oxygen isotopes (Table XI).

- In support of the SMOU RFI program, groundwater samples were collected as part of the SMOU Reporting Groups 2, 3, 5, 6, 7, and 8 data gap investigations (Figure 4) for analysis. Analyses performed included one or more of the following:

  - VOCs, including 1,4-dioxane (Tables III and IV)
  - extractable fuel hydrocarbons (EFHs; Table V)
  - metals, hexavalent chromium (Table VII)
  - SVOCs (Table VIII)
  - PAHs (Table VIII)
  - nitroaromatics and nitramines (Table VIII)
  - perchlorate (Tables IX)
  - formaldehyde and NDMA (Table X)
  - inorganics (bromide, chloride, fluoride, nitrate, sulfate), pH (Table XI)
  - dioxins and furans (Table XII)
  - PCBs (Table XII)
  - hydrazines (Table XIII)
  - surfactants (Table XIII)

As part of the Phase 3 Groundwater Site Conceptual Model Work Plan (MWH, 2007a), Snap Sampler passive groundwater sampling systems were installed and removed from wells HAR-07, HAR-08, HAR-11, HAR-18, RD-01, RD-23, RD-41B, RD-49A, RD-49B, RD-55A, RD-55B, and RD-67. For quarterly groundwater monitoring, dedicated sampling equipment was reinstalled to allow sampling to be conducted per the current SAP (GWRC, 1995a, 1995b).

2.2.1 Near-Surface Groundwater

Groundwater samples were collected from 17 shallow wells and 11 piezometers as part of the groundwater monitoring program in the third quarter 2008. Some shallow wells scheduled for groundwater sampling were dry or contained insufficient water for sampling when monitored (Table II). Analytical results for each well are summarized in Tables III, and V through XIII. The analytical results were within historical ranges (GWRC, 2000; Haley & Aldrich, 2001, 2002a, 2002b, 2003a, 2004, 2005, 2006, 2007, 2008a, 2008c, 2008e; MWH, 2003d), with the exceptions noted below. Deviations from historical water quality results for analytes exceeding the reporting limits are discussed below. Results of verification sampling are discussed below and in section 2.2.4.

In support of the SMOU RFI program, select piezometers and shallow wells were sampled during the third quarter 2008 as part of the Groups 2, 3, 5, and 7 data gap investigations.

2.2.1.1 LUFT Program

Shallow wells RS-01, RS-30, RS-31, and RS-32 were dry or contained insufficient water for sampling during the third quarter and will be rescheduled for semiannual LUFT program sampling during the fourth quarter of 2008.

2.2.1.2 Evaluation Monitoring Program/Interim Corrective Action Program

VOC concentrations detected in groundwater samples collected from shallow evaluation monitoring wells and interim corrective action wells during the third quarter 2008 were within historical ranges (Table III) with the exceptions noted below.

Newly Detected Analytes

Well	Analyte	Third Quarter 2008 Sample Concentration	MCL,NL, or AAL	Units
ES-06	1,1,1-Trichloroethane	0.2 J	200 MCL	µg/L
ES-21	1,4-Dioxane	1 J	3 NL	µg/L
HAR-11	1,4-Dioxane	0.9 J	3 NL	µg/L
	Chloroethane	0.2 J	NA	µg/L
	Ethylbenzene	0.3 J	300 MCL	µg/L
	m-Xylene & p-Xylene	0.8	1750 total MCL	µg/L
	o-Xylene	0.6	1750 total MCL	µg/L

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
NA = Not applicable. No MCL, NL, or AAL has been established for this analyte.
Total = MCL for sum of xylene isomers.

Shallow well HAR-11 was sampled using procedures from the 1995 SAP (GWRC, 1995a, 1995b) after a Snap Sampler system had been installed and removed (MWH, 2007a). Preliminary results from samples collected in July from the HAR-11 Snap Sampler system indicated the presence of ethylbenzene and xylenes at concentrations ranging from 1.45 to 6.08 µg/L (Zimmerman, 2008). The possible presence of these compounds due to field or laboratory contamination is being further evaluated. HAR-11 will be scheduled for VOC verification sampling during the fourth quarter to determine if these newly detected compounds are repeatable in consecutive groundwater samples.

Concentrations of the following analytes detected in groundwater samples collected during the quarter were greater than the concentrations detected in previous samples:

Well	Analyte	Third Quarter 2008 Sample Concentration	MCL,NL, or AAL	Units
ES-21	1,1-Dichloroethene (1,1-DCE)	2 J	6 MCL	µg/L
	cis-1,2-Dichloroethene (cis-1,2-DCE)	**320 J**	6 MCL	µg/L
	Vinyl chloride	**3**	0.5 MCL	µg/L
ES-22	cis-1,2-DCE	**54 J**	6 MCL	µg/L
ES-23	cis-1,2-DCE	**25**	6 MCL	µg/L
HAR-11	Acetone	6.2	NA	µg/L

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
Bolded results exceed MCL.
NA = Not applicable. No MCL, NL, or AAL has been established for this analyte.

Evaluation monitoring wells and interim corrective action wells are scheduled to be monitored semiannually for VOCs and every five years for COCs. The next VOC monitoring event for these wells is scheduled for the first quarter 2009. Constituent of concern monitoring is next scheduled for 2010.

2.2.1.3 Point of Compliance Program

Verification samples scheduled for the third quarter 2008 at shallow point of compliance well SH-04 could not be collected because this well had insufficient water for sampling. Verification samples (primary, duplicate, split, and field blank) will be rescheduled during the fourth quarter 2008 to determine if pesticide detections reported in SH-04 groundwater samples during the second quarter are repeatable in consecutive groundwater samples.

Shallow point of compliance wells HAR-14 and HAR-15 were also monitored under SMOU RFI Reporting Group 3. Results of the monitoring are reported in section 2.2.1.5.

Shallow point of compliance wells SH-04, RS-08, HAR-14, and HAR-15 are scheduled for semiannual VOC monitoring during the fourth quarter 2008 and annual Appendix IX monitoring during the second quarter 2009.

2.2.1.4 Near-Surface Groundwater Radiochemistry Analyses

During the third quarter 2008, near-surface groundwater samples were collected from select wells for the analysis of gross alpha and gross beta radioactivity, Radium-226 (Ra-226), Radium-228 (Ra-228), tritium, and isotopic uranium using EPA Methods 900.0, 903.1, 904.0, 906.0, and 908.0, respectively (Table VI). Samples were also collected for the analysis of additional radionuclide activities per EPA drinking water regulations (Federal Register, 2000):

- In the event gross alpha activity exceeded 15 picoCuries per liter (pCi/L), groundwater samples were analyzed for isotopic uranium using EPA Method 908.0.

- In the event gross beta activity exceeded 50 pCi/L, groundwater samples were analyzed for potassium-40 (K-40) and strontium-90 (Sr-90) using EPA Methods 901.1 and 905.0, respectively.

As discussed in Appendix A, project specific minimum detectable activities (MDAs) were not always attained due in part to matrix conditions (e.g., dissolved and suspended solids) and limitations in the prescribed analytical methods (e.g., sample volumes, counting times).

Results of analyses for groundwater samples collected from Facility wells are compared to California drinking water MCLs for discussion purposes only.

Groundwater at SSFL is not used as a drinking water supply. Except for samples collected for tritium analysis by EPA Method 906.0, all groundwater radiochemistry samples are field filtered.

Results of radionuclide analyses of near-surface groundwater samples are noted below and summarized in Table VI.

Gross Alpha Activity

Results for the third quarter 2008 gross alpha samples were within the historical ranges for near-surface groundwater (Haley & Aldrich, 2008a, 2008c, 2008e). According to the EPA drinking water regulations, the adjusted gross alpha MCL excludes uranium activity (Federal Register, 2000). When the sum of isotopic uranium activity is excluded from gross alpha activity, the adjusted gross alpha result for the third quarter 2008 RS-54 sample did not exceed the adjusted gross alpha drinking water MCL of 15 pCi/L. Calculations of adjusted gross alpha are presented below for samples where gross alpha activity prior to uranium subtraction exceeded 15 pCi/L:

Activity (pCi/L)	
Well	RS-54
Uranium-233/234 (U-233/234)	11.8
Uranium-235 (U-235)	0.730 J
Uranium-238 (U-238)	10.9
Sum of isotopic uranium activity	23.4
Gross alpha	18
Adjusted gross alpha	<0

Gross Beta Activity

The gross beta activities detected in near-surface groundwater samples were less than the drinking water MCL of 50 pCi/L.

Tritium Activity

Tritium was not detected in the RS-54 groundwater sample collected during the third quarter 2008.

Radium-226 and Radium-228

The sum of Ra-226 and Ra-228 activities for all near-surface groundwater samples was less than the drinking water MCL of 5 pCi/L for Ra-226 and Ra-228 combined.

Gamma Emitters

Gamma-emitting radionuclides samples collected during the quarter were not analyzed because gross beta activities did not exceed 50 pCi/L.

Uranium

The California MCL for uranium is 20 pCi/L. Groundwater collected from shallow well RS-54 was analyzed for isotopic uranium. Uranium activity in

the RS-54 groundwater sample exceeded the 20 pCi/L MCL based on the results of analyses for uranium isotope activities:

	Activity (pCi/L)			
Well	U-233/234	U-235	U-238	Total
RS-54	11.8	0.730 J	10.9	**23.4**

Bolded results exceed 20 pCi/L California MCL.

2.2.1.5 Other Monitoring

Some Facility wells sampled during the quarter were not part of the LUFT, evaluation, interim corrective action, or point of compliance programs. These wells are not included in any prescribed monitoring program.

In support of the SMOU RFI program, groundwater samples were collected from piezometers and shallow wells as part of the data gap investigations for SMOU Reporting Groups 2, 3, 5, and 7.

A. *Other Monitoring Results* - VOC results from RS-54 groundwater were within historical ranges (Table III).

B. *SMOU RFI Data Gap Results* - As part of the RFI data gap investigation for SMOU Reporting Groups 2, 3, 5, and 7, piezometers and shallow wells were sampled during the third quarter 2008 as listed below.

Analysis	Monitoring Location
VOCs (including 1,4-dioxane)	ES-21, HAR-11, HAR-14, HAR-15
EFHs	ES-21, HAR-11, HAR-14, HAR-15, PZ-122
Filtered metals	ES-21, HAR-11, HAR-14, HAR-15, PZ-105, PZ-106, PZ-109, PZ-122, RS-28
Hexavalent chromium	ES-21, HAR-11, HAR-14, HAR-15
SVOCs	ES-21, HAR-11, HAR-14, HAR-15, PZ-106
PAHs	PZ-025, PZ-026
Perchlorate	PZ-108, PZ-121, PZ-122
Formaldehyde	PZ-025, PZ-026
Inorganics (bromide, fluoride, nitrate, sulfate, chloride)	PZ-005, PZ-103, PZ-106, PZ-108, PZ-109, PZ-121, PZ-122
pH	PZ-122
Dioxins and furans	ES-21, HAR-11, HAR-14, HAR-15
PCBs	ES-21
Hydrazines	PZ-108, PZ-121, PZ-122
Surfactants	PZ-041

Hexavalent chromium, SVOCs, PAHs, perchlorate, formaldehyde, PCBs, hydrazines, and surfactants were not detected (Tables VII, VIII, IX, X, XII, and XIII). Inorganic constituent results were below MCLs with the exception of nitrate detected at 71 milligrams per liter (mg/L) in PZ-005 groundwater (Table XI). The drinking water MCL for nitrate is 45 mg/L.

Concentrations of metals were below MCLs and NLs (Table VII) with the following exception:

- Manganese was detected above the 0.5 mg/L NL in the filtered groundwater sample collected from HAR-11 at a concentration of 2.29 mg/L. This result is within the historical range of results for this well.

The following VOC and fuel hydrocarbon analytes were detected for the first time (Tables III and V). HAR-11 was sampled using procedures from the 1995 SAP (GWRC, 1995a, 1995b) after a Snap Sampler system had been installed and removed from the well (MWH, 2007).

Well	Analyte	Third Quarter 2008 Sample Concentration	MCL, NL, or AAL	Units
ES-21	1,4-Dioxane	1 J	3 NL	µg/L
HAR-11	1,4-Dioxane	0.9 J	3 NL	µg/L
	Chloroethane	0.2 J	NA	µg/L
	Ethylbenzene	0.3 J	300 MCL	µg/L
	m-Xylene & p-Xylene	0.8	1750 (total) MCL	µg/L
	o-Xylene	0.6	1750 (total) MCL	µg/L
	Extractable fuel hydrocarbon, C15-C20	0.49 J	NA	mg/L
	Extractable fuel hydrocarbon, C21-C30	0.53 J	NA	mg/L
	Extractable fuel hydrocarbon, C8-C30	1.1	NA	mg/L

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
NA = Not applicable. No MCL, NL, or AAL has been established for this analyte.

Concentrations of the following VOC analytes detected in groundwater samples collected for the SMOU RFI program during the quarter were greater than the concentrations detected in previous samples:

Well	Analyte	Third Quarter 2008 Sample Concentration	MCL, NL, or AAL	Units
ES-21	1,1-DCE	2 J	6 MCL	µg/L
	cis-1,2-DCE	**320 J**	6 MCL	µg/L
	Vinyl chloride	**3**	0.5 MCL	µg/L
HAR-11	Acetone	6.2	NA	µg/L

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).

Bolded results exceed MCL.
NA = Not applicable. No MCL, NL, or AAL has been established for this analyte.

As discussed in Section 2.2.1.2, verification sampling will be scheduled at HAR-11 during the fourth quarter 2008 to determine if the newly detected VOCs are repeatable in consecutive groundwater samples or possible artifacts of field or laboratory contamination. Preliminary results from samples collected in July from the HAR-11 Snap Sampler system indicated the presence of ethylbenzene and xylenes (Zimmerman, 2008).

Low concentrations of dioxins and furans were detected in samples collected from HAR-14 and HAR-15. The following dioxins and furans were detected for the first time in groundwater from HAR-14 (Table XII):

Well	Analyte	Third Quarter 2008 Sample Concentration picograms per liter (pg/L)	MCL, NL or AAL
HAR-14	1,2,3,4,7,8,9-HpCDF	3.6 J	NA
	1,2,3,4,7,8-HxCDF	4.4 J	NA
	1,2,3,6,7,8-HxCDD	4.4 J	NA
	2,3,4,6,7,8-HxCDF	0.77 J	NA
	2,3,4,7,8-PeCDF	0.55 J	NA
	OCDF	58	NA

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
NA = Not applicable. No MCL, NL, or AAL has been established for this analyte.

Concentrations of the following dioxins and furans detected in groundwater samples collected during the quarter were greater than the concentrations detected in previous samples:

Well	Analyte	Third Quarter 2008 Sample Concentration (pg/L)	MCL, NL or AAL
HAR-14	1,2,3,4,6,7,8-HpCDF	34 J	NA
	1,2,3,4,6,7,8-HpCDD	66	NA
	1,2,3,6,7,8-HxCDF	5.2 J	NA
	OCDD	290	NA

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
NA = Not applicable. No MCL, NL, or AAL has been established for this analyte.

When converted to 2,3,7,8-TCDD TEQ (van den Berg et al., 2006), the concentrations of the detected dioxin and furan congeners in the groundwater samples collected from HAR-14 and HAR-15 were less than the drinking water MCL of 30 pg/L for 2,3,7,8-TCDD.

Well	2,3,7,8-TCDD TEQ (pg/L)	2,3,7,8-TCDD MCL (pg/L)
HAR-14	2.8	30
HAR-15	0.02 J	30

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).

2.2.2 Chatsworth Formation

Analytical results of Chatsworth Formation groundwater samples collected during the third quarter 2008 are summarized in Tables IV through XIII. Overall, results were consistent with historical results (GWRC, 2000; Haley & Aldrich, 2001, 2002a, 2002b, 2003a, 2003b, 2004, 2005, 2006, 2007, 2008a, 2008c, and 2008e). Deviations from past water quality results for analytes reported above the reporting limits are discussed below.

Chatsworth Formation groundwater samples were collected from 104 Facility wells and 5 private off-site wells as part of the groundwater monitoring program in the third quarter 2008. Detection monitoring wells and background wells are scheduled to be sampled quarterly. For the Evaluation Monitoring Program, Chatsworth Formation evaluation monitoring wells and interim corrective action wells are scheduled to be monitored semiannually during the first and third quarters. Three Chatsworth Formation wells serving as point of compliance wells are scheduled to be monitored annually for Appendix IX parameters. As part of the CFOU RFI groundwater investigation, select Chatsworth Formation wells are scheduled to be sampled quarterly for constituents of concern. In support of the SMOU RFI program's data gap investigation for SMOU Reporting Groups 5, 6, 7, and 8, groundwater from select Chatsworth Formation wells was sampled and analyzed for

- extractable fuel hydrocarbons (Table V)
- metals, hexavalent chromium (Table VII)
- SVOCs, nitroaromatics, nitramines, PAHs (Table VIII)
- perchlorate (Table IX)
- formaldehyde, NDMA (Table X)
- dioxins and furans, PCBs (Table XII)
- hydrazines (Table XIII)

During the quarter, groundwater samples were collected from FLUTe systems installed in wells RD-07, RD-21, RD-22, RD-23, RD-33A, RD-50, RD-54A, and RD-57. Benzene, chlorobenzene, ethylbenzene, and toluene reported in groundwater samples collected from these wells may be chemicals introduced by FLUTe system components (Table IV). Groundwater samples collected from these wells prior to FLUTe installation using the procedures described in the SAP did not have detectable concentrations of these compounds (GWRC, 2000; Haley & Aldrich, 2001, 2002a, 2003a). Based on communication with FLUTe system designer Carl Keller, concentrations of benzene and toluene have been observed in groundwater samples collected with FLUTe systems at other sites and may be attributed to equipment components (Keller, personal communication, 2003). Potential FLUTe-equipment contaminants are qualified "F" for benzene and toluene or "S" (Suspect) for chlorobenzene and ethylbenzene in Table IV and in the following text.

2.2.2.1 LUFT Program

VOC results and gasoline range organics (GRO) analytical results for the semiannual sampling of Chatsworth Formation wells monitored under the LUFT program were within historical ranges during the third quarter 2008 with the following exceptions:

Newly Detected Analytes

Well	Analyte	Third Quarter 2008 Sample Concentration (μg/L)	MCL, NL, or AAL (μg/L)
RD-32	Benzene	0.6	1 MCL
	Methyl ethyl ketone	1.5 J	NA
	m-Xylene & p-Xylene	9.7	1750 (total) MCL
	o-Xylene	10	1750 (total) MCL
	Tetrachloroethene	0.5	5 MCL
RD-36D	1,1-DCE	0.2 J	6 MCL
	Tetrachloroethene	0.2 J	5 MCL
	trans-1,2-DCE	0.3 J	10 MCL

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
NA = Not applicable. No MCL, NL, or AAL has been established for this analyte.

1,1-DCE, tetrachloroethene, and trans-1,2-DCE were not detected in the duplicate and split samples collected from RD-36D.

Third Quarter 2008 Concentrations Greater than Previously Detected

Well	Analyte	Third Quarter 2008 Sample Concentration (μg/L)	MCL, NL, or AAL (μg/L)
RD-32	Acetone	8.1	NA
	Ethylbenzene	3.8	300 MCL
	GRO (C6-C12)	120	NA
	Tetrachloroethene	0.5	5 MCL
	Toluene	17	150 MCL
RD-36D	cis-1,2-DCE	2	6 MCL
	TCE	3.9	5 MCL

NA= Not applicable. No MCL, NL, or AAL has been established for this analyte.

Detected VOCs in the RD-32 groundwater sample were consistent with past results and are suspected to be field contamination or laboratory contamination or both. Verification samples (primary, duplicate, split, and field blank samples) for the analysis of VOCs and GRO will be scheduled for collection during the fourth quarter 2008 to determine if these detections are repeatable in consecutive samples.

Cis-1,2-DCE was not detected in the duplicate and split groundwater samples collected from RD-36D. TCE was detected in the duplicate and split groundwater samples from RD-36D at estimated concentrations of 0.4 and

0.35 μg/L – approximately 10 times lower than the primary sample concentration of 3.9 μg/L.

Verification sampling for chloroethane was conducted at LUFT program well RD-36D during the third quarter. Chloroethane was not detected in the primary, duplicate, split, or field blank samples.

Semiannual monitoring of LUFT program wells is scheduled for the first quarter 2009.

2.2.2.2 Detection Monitoring Program

VOCs were not detected above the reporting limits in groundwater samples collected from detection monitoring and background wells during the third quarter 2008 (Table IV) with the exception of VOCs identified in the RD-32 groundwater sample. These detections are listed in Section 2.2.2.1 and discussed below. Verification sampling (primary, duplicate, split, and field blank samples) will be scheduled during fourth quarter 2008 to determine if the analytes listed below are repeatable in consecutive RD-32 groundwater samples.

- Benzene, m-Xylene & p-Xylene, and o-Xylene were detected for the first time at concentrations of 0.6, 9.7, and 10 μg/L, respectively. The MCLs for benzene, and total xylenes are 1 and 1,750 μg/L, respectively.

- Acetone was detected at a new maximum concentration of 8.1 μg/L. Acetone was previously detected in RD-32 groundwater at concentrations ranging up to an estimated 6.3 μg/L in October 2002 (Haley & Aldrich, 2003). Neither a drinking water MCL nor a California NL have been established for acetone.

- Ethylbenzene was detected at a new maximum concentration of 3.8 μg/L. Ethylbenzene was detected once previously in August 1995 at a concentration of 0.3 μg/L (GWRC, 2000). Ethylbenzene has an MCL of 300 μg/L.

- Tetrachloroethene (PCE) was detected at 0.5 μg/L. PCE was detected once previously in August 2002 at an estimated concentration of 0.19 μg/L (Haley & Aldrich, 2003). PCE has an MCL of 5 μg/L.

- Toluene was detected at a new maximum concentration of 17 μg/L. Toluene was detected once previously in August 1995 at a concentration of 0.4 μg/L (GWRC, 2000). Toluene has a MCL of 150 μg/L.

As discussed in Section 2.2.2.1, the detected VOCs in RD-32 groundwater are inconsistent with prior data and are suspected to be due to contamination in the field or laboratory or both.

VOCs detected in groundwater samples from detection and background wells collected during the third quarter 2008 included:

- Carbon disulfide was detected in a sample collected from RD-05C at an estimated concentration of 0.4 μg/L. Carbon disulfide was not detected in the duplicate sample that was also collected during the third quarter. Carbon disulfide was detected in November 2007 (primary sample) and February 2008 (split sample) at concentrations of 0.7 and an estimated 0.23 μg/L, respectively. The NL for carbon disulfide is 160 μg/L.

- TCE was detected in the RD-13 groundwater sample at an estimated concentration of 0.4 μg/L. This concentration is consistent with past samples collected from RD-13 since 2000 (Haley & Aldrich, 2001). The MCL for TCE is 5 μg/L.

- Methyl ethyl ketone was detected for the first time in groundwater collected from RD-32 at an estimated concentration of 1.5 μg/L. Neither a drinking water MCL nor a California NL have been established for methyl ethyl ketone.

- Acetone was detected in the split sample collected from RD-37 at an estimated concentration of 2.4 μg/L. Acetone was not detected in the primary or duplicate samples. Acetone has been detected in RD-37 groundwater at concentrations ranging up to 28 μg/L in March 2003 (Haley & Aldrich, 2004). Neither a drinking water MCL nor a California NL have been established for acetone.

- TCE was detected in the primary and duplicate samples collected from RD-37 at estimated concentrations of 0.1 μg/L in each sample. TCE was not detected in the split sample collected during the third quarter. TCE was previously detected in RD-37 groundwater at concentrations ranging up to an estimated 0.3 μg/L in samples collected during May and August 2004 (Haley & Aldrich, 2005). The MCL for TCE is 5 μg/L.

- Benzene was detected for the first time in a sample collected from RD-43C at an estimated concentration of 0.2 μg/L. The MCL for benzene is 1 μg/L. Benzene detected in the third quarter 2008 sample is suspected to be a possible field contaminant.

- Toluene was detected in a sample collected from RD-43C at an estimated concentration of 0.2 μg/L. The MCL for toluene is 150 μg/L. Toluene was previously detected in August 2002 at an estimated concentration of 0.41 μg/L and was suspected to be a possible vial contaminant (Haley & Aldrich, 2003b). Toluene detected in the third quarter 2008 sample is suspected to be a possible field contaminant.

- TCE was detected in primary and duplicate samples collected from RD-51C at estimated concentrations of 0.1 and 0.1 μg/L. TCE was not detected in the split sample that was also collected during the third quarter. TCE was previously detected in a groundwater sample collected from RD-51C during May 2008 at an estimated

concentration of 0.1 μg/L (Haley & Aldrich, 2008e). The MCL for TCE is 5 µg/L.

Results of verification sampling conducted during the third quarter 2008 are presented in Section 2.2.4 below. For detection monitoring and background wells, verification sampling results indicated that

- TCE was not detected in groundwater samples collected from monitor well RD-06.
- Carbon disulfide was not detected in verification groundwater samples collected from wells RD-05B, RD-37, RD-43B, RD-51C, or RD-61.

Proposed as a replacement background well for RD-48B (Boeing, 2007), well RD-67 is scheduled for four quarters of groundwater sampling and analysis of constituents of concern and background monitoring parameters per the Post-Closure Permits. The third of four quarterly samples was collected this quarter.

During this quarter, constituents of concern in groundwater samples collected from background well RD-67 were less than detectable concentrations or, if detected, did not exceed drinking water MCLs or California NLs (Table X). NDMA was not detected in groundwater samples collected from well RD-67 (Table VIII). VOCs, 1,4-dioxane, and SVOCs were not detected in RD-67 groundwater (Tables IV, VIII, and X) with one exception:

- bis(2-Ethylhexyl) phthalate was detected at 7 ug/L. Neither a drinking water MCL nor a California NL have been established for bis(2-ethylhexyl) phthalate.

Background monitoring parameters in RD-67 groundwater (Table XI) did not exceed primary drinking water MCLs.

Some detection monitoring wells were sampled for additional constituents as part of other monitoring programs, and those results are discussed in the respective sections within this report.

Verification samples scheduled at detection monitoring well RD-39A and background well RD-48A could not be collected during the third quarter. RD-39A and RD-48A did not contain sufficient water to collect representative samples. TCE was detected in the RD-39A groundwater sample at 1 μg/L during the first quarter 2007 (Haley & Aldrich, 2008a). Carbon disulfide was detected in a RD-48A groundwater sample at an estimated 0.85 μg/L in September 2006 (Haley & Aldrich, 2007). Verification sampling for RD-39A will be scheduled for the fourth quarter 2008 to determine if TCE is repeatable in consecutive groundwater samples. Based on results of the third quarter analyses, verification samples will be scheduled for collection during the fourth quarter 2008 at these detection monitoring wells to determine if VOCs are repeatable in consecutive groundwater samples:

- RD-32 VOCs
- RD-43C benzene, toluene

Chatsworth Formation detection monitoring and background wells are scheduled to be monitored quarterly for VOCs and every five years for COCs.

Carbon disulfide was not detected in any of the verification samples collected from detection monitoring wells during the third quarter. However, it was detected in groundwater collected from detection well RD-05C at an estimated concentration of 0.4 µg/L. The MDL, RL, and NL for carbon disulfide are 0.1 to 0.4 µg/L, 0.5 µg/L, and 160 µg/L, respectively. The occurrence and distribution of the locations of wells from which groundwater samples had carbon disulfide detections are not consistent with known chemical storage, use, or disposal; or impacted groundwater areas at SSFL. The carbon disulfide detected in the groundwater samples is believed to be related to sampling or laboratory analytical processes. Additional research into the possible sources of carbon disulfide in the groundwater samples is on-going.

2.2.2.3 Evaluation Monitoring Program/Interim Corrective Action Program

Concentrations of VOCs in groundwater samples collected from Chatsworth Formation evaluation monitoring wells and interim corrective action wells sampled during the third quarter 2008 were within historical ranges (Table IV) with the exceptions noted below:

Newly Detected Analytes

Well	Analyte	Third Quarter 2008 Sample Concentration	MCL	Units
RD-55B	o-Xylene	0.2 J	1750 (total)	µg/L
	Toluene	0.9	150	µg/L

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).

Third Quarter 2008 Concentrations Greater than Previously Detected

Well	Analyte	Third Quarter 2008 Sample Concentration	MCL, NL, or AAL	Units
RD-04	cis-1,2-DCE	180	6	µg/L
RD-45B	cis-1,2-DCE	32	6	µg/L
RD-46A	cis-1,2-DCE	840	6	µg/L
RD-55B	Acetone	87	NA	µg/L
	Chloromethane	0.3 J	NA	µg/L
	cis-1,2-DCE	15	6	µg/L
	m-Xylene & p-Xylene	0.3 J	1750 (total)	µg/L

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
NA= Not applicable. No MCL, NL, or AAL has been established for this analyte.

Well RD-55B was sampled using procedures from the 1995 SAP (GWRC, 1995a, 1995b) after a Snap Sampler system was installed and removed (MWH, 2007a). Preliminary results for samples collected in July from the

RD-55B Snap system indicated the presence of methyl ethyl ketone, chloromethane, ethylbenzene, m-Xylene & p-Xylene, o-Xylene, and toluene at concentrations ranging from an estimated 0.37 to 19.5 μg/L (Zimmerman, 2008). Acetone also was detected in the Snap samples at 378 to 478 μg/L (Zimmerman, 2008). The possibility that these detections may be due to field or laboratory contamination is being investigated. RD-55B will be scheduled for VOC verification sampling (primary, duplicated, split, and field blank samples) during the fourth quarter 2008 to determine if these compounds are repeatable in consecutive groundwater samples.

Semiannual VOC analysis of groundwater samples collected from evaluation monitoring wells and interim corrective action wells is scheduled to be conducted during the first and third quarters of the calendar year. Chatsworth Formation evaluation monitoring wells are scheduled to be monitored every five years for COCs.

2.2.2.4 Point of Compliance Program

Primary, duplicate, and field blank samples were collected during the third quarter 2008 to determine if dioxin and furan detections reported in HAR-07, HAR-16, and HAR-17 groundwater samples during the second quarter were repeatable in consecutive groundwater samples.

No dioxins or furans were detected in third quarter groundwater samples collected from these wells (Table XII).

Chatsworth Formation point of compliance wells HAR-07, HAR-16, and HAR-17 are scheduled for semiannual VOC monitoring during the fourth quarter 2008 and annual Appendix IX monitoring during the second quarter 2009.

2.2.2.5 Chatsworth Formation Radiochemistry Analyses

During the third quarter 2008, Chatsworth Formation groundwater samples were collected from select wells for the analysis of gross alpha and gross beta radioactivity, Ra-226, Ra-228, tritium, gamma-emitting radionuclides, strontium-90, isotopic thorium, and isotopic uranium, using EPA Methods 900.0, 903.1, 904.0, 906.0, 901.1, 905.0, 907.0, and 908.0, respectively (Table VI). Samples were also collected for the analysis of radionuclide activities per EPA drinking water regulations (Federal Register, 2000):

- In the event gross alpha activity exceeded 15 pCi/L, groundwater samples were analyzed for isotopic uranium using EPA Method 908.0.

- In the event gross beta activity exceeded 50 pCi/L, groundwater samples were analyzed for potassium-40 using EPA Method 901.1 and strontium-90 using EPA Method 905.0.

Results of radionuclide analyses of groundwater samples collected in late June 2008 as well as during the third quarter 2008 at newly constructed well RD-98 are noted below and summarized in Table VI. In addition to the standard

analyses listed above, RD-98 groundwater samples were also analyzed for plutonium-238 and plutonium-239 by method HASL-300.

As discussed in Appendix A, project specific minimum detectable activities were not always attained due in part to matrix conditions (e.g., dissolved and suspended solids) and limitations in the prescribed analytical methods (e.g., sample volumes, counting times).

Results of analyses for groundwater samples collected from Facility wells are compared to California drinking water MCLs for discussion purposes only. Groundwater at SSFL is not used as a drinking water supply. Except for samples collected for tritium analysis by EPA Method 906.0, all groundwater radiochemistry samples are field filtered.

Results of radionuclide analyses of Chatsworth Formation groundwater samples are noted below and summarized in Table VI.

Gross Alpha Activity

Results for the third quarter 2008 gross alpha samples were within historical ranges for Chatsworth Formation groundwater (Haley & Aldrich, 2008a, 2008c, 2008e). According to EPA drinking water regulations, the gross alpha MCL excludes uranium activity (Federal Register, 2000). When the sum of isotopic uranium activity is excluded from gross alpha activity, none of the adjusted gross alpha results for the third quarter 2008 samples exceeded the adjusted gross alpha drinking water MCL of 15 pCi/L. Calculations of adjusted gross alpha are presented below for samples where isotopic uranium activity was analyzed and where gross alpha activity prior to uranium subtraction exceeded 15 pCi/L:

Activity (pCi/L)		
Well	RD-07	RD-34A
U-233/234	19.1	9.22
U-235	0.45 U	0.485 J
U-238	15.4	9.85
Sum of isotopic uranium activity	34.95	19.6
Gross alpha	26.4	16.4
Adjusted gross alpha	<0	<0

J = Result is less than the contract-required MDA and greater than or equal to the MDA.

Gross Beta Activity

The gross beta activities detected in Chatsworth Formation groundwater samples were less than the drinking water MCL of 50 pCi/L.

Tritium Activity

The results of analyses for tritium in Chatsworth Formation groundwater samples collected during the third quarter 2008 were less than the drinking water MCL of 20,000 pCi/L and were comparable to past results (Haley & Aldrich, 2008a, 2008c, 2008e).

Radium-226 and Radium-228

The sum of Ra-226 and Ra-228 activities for each Chatsworth Formation groundwater sample was less than the drinking water MCL of 5 pCi/L for combined Ra-226 and Ra-228 with the following exception:

- The combined Ra-226 and Ra-228 activities in a groundwater sample collected from RD-27 totaled 5.12 pCi/L.

Gamma Emitters

Anthropogenic gamma emitters were not detected in Chatsworth Formation groundwater samples collected during the third quarter 2008. Potassium-40 also was not detected in Chatsworth Formation groundwater samples collected during the quarter. Potassium-40 is naturally occurring.

Plutonium-238 and Plutonium-239

Plutonium-238 and Plutonium-239 were not detected in groundwater samples collected from RD-98.

Strontium-90

The June and September samples from the newly constructed well RD-98 both had detectable strontium-90 at 2.35 +/- 0.52 pCi/L and 2.18 +/- 0.42 pCi/L, respectively. These values are less than the drinking water MCL of 8 pCi/L. Strontium-90 has not been detected in previous groundwater samples collected from wells at the site (Haley & Aldrich, 2008a). Well RD-98 was installed at the RMHF leachfield to investigate potential groundwater impacts related to reported releases of radionuclides (Haley & Aldrich, 2008b). This well was constructed as a part of the on-going Data Gap Investigation for Radiological Constituents in Groundwater in Area IV of the SSFL, which was initiated in 2004 to identify radiochemical impacts associated with suspected source locations (Haley & Aldrich, 2008b). More widespread testing for strontium-90 has been scheduled for other wells in Area IV during the fourth quarter 2008 and subsequent quarterly sampling events.

Thorium

Thorium isotopes were not detected in Chatsworth Formation groundwater samples collected during the quarter.

Uranium

The California MCL for uranium is 20 pCi/L. Analysis of uranium isotope activity indicates that uranium activity in groundwater collected from Chatsworth Formation wells did not exceed the MCL, except in the groundwater sample collected from RD-07.

	Activity (pCi/L)			
Well	U-233/234	U-235	U-238	Total
RD-07	19.1	0.45 U	15.4	**34.95**

Bolded results exceed 20 pCi/L California MCL.

2.2.2.6 Chatsworth Formation Operable Unit Constituents of Concern Analyses

As part of the ongoing CFOU RFI investigation, quarterly groundwater sampling and analysis for constituents of concern is conducted at 26 wells located in seven areas: Canyon, Bowl, Alfa, Bravo, ELV/B204, Delta, and STL-IV (Figures 1 and 4). Groundwater samples for perchlorate analysis are also collected from these wells, although not part of the CFOU RFI sampling plan.

During the third quarter 2008, 23 of the 26 CFOU RFI wells were sampled for the analysis of COCs (Table X). RD-02 and RD-44 needed repair and RD-51A had insufficient water for sampling during the third quarter 2008.

Fluoride and nitrate concentrations were below drinking water MCLs of 2.0 mg/L and 45 mg/L, respectively, in groundwater samples collected from wells in the CFOU RFI investigation. Detected ammonia concentrations ranged up to 0.22 mg/L in the groundwater sample collected from HAR-07. Neither a drinking water MCL nor a California NL have been established for ammonia.

Formaldehyde concentrations were less than the California drinking water NL of 100 μg/L.

During the third quarter 2008, NDMA was analyzed using EPA Method 1625 with a reporting limit of 0.005 μg/L. This reporting limit is lower than the California drinking water NL of 0.01 μg/L. NDMA was detected at concentrations equal to or greater than 0.01 μg/L in groundwater samples collected from wells HAR-07, HAR-08, and RD-49B (Table X).

VOC and 1,4-dioxane concentrations were within historical ranges in groundwater collected from the CFOU RFI wells during the third quarter 2008 (Table IV) with the exceptions noted below.

Newly Detected Analytes

Well	Analyte	Third Quarter 2008 Sample Concentration	MCL, NL, or AAL	Units
HAR-08	Ethylbenzene	0.4 J	300 MCL	μg/L
	m-Xylene & p-Xylene	1.5	1750 (total) MCL	μg/L
	o-Xylene	1.2	1750 (total) MCL	μg/L
RD-55B	o-Xylene	0.2 J	1750 (total) MCL	μg/L
	Toluene	0.9	150 MCL	μg/L

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).

Third Quarter 2008 Concentrations Greater than Previously Detected

Well	Analyte	Third Quarter 2008 Sample Concentration	MCL, NL, or AAL	Units
RD-04	cis-1,2-DCE	180	6 MCL	µg/L
RD-49C	1,1-DCE	0.3 J	6 MCL	µg/L
RD-55B	Acetone	87	NA	µg/L
	Chloromethane	0.3 J	NA	µg/L
RD-55B	cis-1,2-DCE	15	6 MCL	µg/L
	m-Xylene & p-Xylene	0.3 J	1750 (total) MCL	µg/L

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
NA= Not applicable. No MCL, NL, or AAL has been established for this analyte.

Wells HAR-08 and RD-55B were sampled using procedures from the 1995 SAP (GWRC, 1995a, 1995b) after Snap Sampler systems were installed and removed (MWH, 2007a). Preliminary results from samples collected in July from the Snap samplers indicated the presence of the following VOCs (Zimmerman, 2008):

- HAR-08: Acetone, ethylbenzene, m-Xylene & p-Xylene, o-Xylene, and toluene.

- RD-55B: Acetone, methyl ethyl ketone, chloromethane, ethylbenzene, m-Xylene & p-Xylene, o-Xylene, and toluene.

The possibility that these detections may be due to field or laboratory contamination is being investigated. HAR-08 and RD-55B will be scheduled for VOC verification sampling (primary, duplicate, split, and field blank samples) during the fourth quarter 2008 to determine if these compounds are repeatable in consecutive groundwater samples.

Perchlorate concentrations in groundwater samples collected from CFOU RFI wells during the third quarter 2008 were within historical ranges (Table X).

SVOCs were not detected in groundwater samples collected from CFOU RFI wells during the third quarter with the following exceptions:

- Bis(2-ethylhexyl) phthalate was detected in the groundwater sample collected from well RD-09 for the first time during the third quarter 2008 at an estimated concentration of 3 µg/L (Table XIII).

- Bis(2-ethylhexyl) phthalate was detected in the groundwater sample collected from well RD-49A during the third quarter 2008 at a new high concentration of 160 µg/L (Table XIII). The highest concentration previously detected was 17 µg/L collected during the first quarter 2008.

Well RD-49A was sampled using procedures from the 1995 SAP (GWRC, 1995a, 1995b) after a Snap Sampler system had been installed and removed

(MWH, 2007a). Bis(2-ethylhexyl) phthalate was not analyzed for in samples collected from the Snap system in July.

Verification samples (primary, duplicate, split, and field blank samples) were collected from RD-51C due to a carbon disulfide detection in the second quarter 2008. Carbon disulfide was not detected in the primary, duplicate, or split samples in the third quarter (Table IV).

2.2.2.7 Monitoring of Perimeter Wells and Private Off-Site Wells and Springs

Analytical results indicated that VOCs were not detected above the reporting limits in groundwater samples collected from perimeter wells and private off-site wells during the third quarter 2008 (Table IV) with the following exception:

- Acetone was detected at 6.7 μg/L in the groundwater sample collected from RD-68A. Acetone was detected in 6 of 49 prior samples, and attributed to field or laboratory contamination.

Results of analyses for hexavalent chromium and dissolved metals in groundwater samples collected from perimeter wells as part of SMOU RFI data gap investigations are discussed in Section 2.2.2.8.

Results of analyses for perchlorate, stable isotope, and inorganic constituents in groundwater samples collected from private off-site wells included in the Perchlorate Characterization Work Plan are discussed in Section 2.2.3.

During the third quarter, verification samples (primary, duplicate, split, and field blank samples) were collected from OS-17 and RD-70 for the analysis of carbon disulfide and from RD-68B for the analysis of cis-1,2-DCE. Carbon disulfide was not detected in verification samples collected from OS-17 and RD-70. Cis-1,2-DCE was detected in the split sample collected from RD-68B at an estimated concentration of 0.17 μg/L, but was not detected above the 0.1 μg/L detection limit in the primary and duplicate samples.

2.2.2.8 Other Monitoring

Some Facility wells sampled during the quarter were not perimeter wells, were not part of the perchlorate characterization or the CFOU RFI investigation, nor the LUFT, detection monitoring, evaluation monitoring, interim corrective action, or point of compliance programs. These wells are not included in any prescribed schedule.

In support of the SMOU RFI program, groundwater samples were collected from Chatsworth Formation wells as part of the data gap investigation for SMOU Reporting Groups 5, 6, 7, and 8.

HAR-07, HAR-18, RD-23, and RD-55A were sampled using procedures from the 1995 SAP (GWRC, 1995a, 1995b) after Snap Sampler systems had been installed and removed (MWH, 2007a).

A. *Other Monitoring Results* - Analytical results were within historical ranges with the exceptions noted below.

The following VOCs and dissolved metals were detected in groundwater samples for the first time during the third quarter (Tables IV and VII):

Well	Analyte	Third Quarter 2008 Sample Concentration	MCL, NL, or AAL	Units
RD-04	Antimony	0.00038 J	0.006 MCL	mg/L
	Cadmium	0.00071	0.005 MCL	mg/L
RD-21	Ethylbenzene	2 J,S	300 MCL	µg/L
RD-34B	1,1-Dichloroethane	0.2 J	5 MCL	µg/L
RD-46A	Aluminum	0.19 J	NA	mg/L
RD-59B	Beryllium	0.0008	0.004 MCL	mg/L
RD-59C	Beryllium	0.00097	0.004 MCL	mg/L
RD-60	Arsenic	0.0013 J	0.05 MCL	mg/L
RD-86	Silver	0.00014 J	NA	mg/L

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
S = Suspect result. Result is not representative of past groundwater samples.
NA = Not applicable. No MCL, NL, or AAL has been established for this analyte.

Concentrations of the following VOCs and dissolved metals detected in groundwater samples collected during the quarter were greater than the concentrations detected in previous samples (Tables IV and VII).

Well	Analyte	Third Quarter 2008 Sample Concentration	MCL, NL, or AAL	Units
HAR-07	Manganese	0.33	0.5 NL	mg/L
HAR-16	Magnesium	14.8	NA	mg/L
HAR-18	Copper	0.0047	NA	mg/L
	Manganese	0.128	0.5 NL	mg/L
RD-04	Arsenic	0.0019 J	0.05 MCL	mg/L
	Copper	0.0116	NA	mg/L
	Iron	3	NA	mg/L
	Lead	0.005	NA	mg/L
	Manganese	0.319	0.5 NL	mg/L
	Thallium	0.00029 J	0.002 MCL	mg/L
	Vanadium	0.0054	0.05 NL	mg/L
	Zinc	1.22	NA	mg/L
RD-09	Lead	0.0013	NA	mg/L
RD-21	Acetone	95	NA	µg/L
	Iron	0.153 J	NA	mg/L
	cis-1,2-DCE	**740**	6 MCL	µg/L
	Methyl ethyl ketone	11	NA	µg/L
RD-33A	Chlorobenzene	0.6 S	NA	µg/L
	trans-1,2-DCE	0.7	10 MCL	µg/L

Well	Analyte	Third Quarter 2008 Sample Concentration	MCL, NL, or AAL	Units
RD-34A	Arsenic	0.0014 J	0.05 MCL	mg/L
	Magnesium	45.1	NA	mg/L
RD-46A	Iron	1.59	NA	mg/L
	Manganese	0.0442	0.5 NL	mg/L
RD-59B	Arsenic	0.00098 J	0.05 MCL	mg/L
RD-59C	Copper	0.0023	NA	mg/L
RD-60	Beryllium	0.0021	0.004 MCL	mg/L
RD-86	Magnesium	28.5	NA	mg/L
	Zinc	0.163	NA	mg/L
WS-09A	Iron	1.97	NA	mg/L

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
S = Suspect result. Result is not representative of past groundwater samples.
NA = Not applicable. No MCL, NL, or AAL has been established for this analyte.
Bolded results exceed MCL, NL, or AAL.

Ethylbenzene and chlorobenzene results for groundwater collected from RD-21 and RD-33A are qualified as suspect (S). Samples collected at these wells were collected from FLUTe systems and ethylbenzene and chlorobenzene may have been introduced by FLUTe equipment components.

B. *SMOU RFI Data Gap Results* - As part of the SMOU RFI data gap investigation for Reporting Groups 5, 6, 7, and 8, select wells were sampled and analyzed for select constituents during the quarter. Results are summarized in Tables V, VII, VIII, IX, X, XII, and XIII.

Analyses performed on groundwater samples collected from individual wells during the quarter were:

Analysis	Wells
EFHs	RD-19, RD-30
Metals	RD-14, RD-19, RD-22, RD-27, RD-30, RD-33A, RD-33B, RD-57, RD-59A, RD-85
SVOCs	RD-30
PAHs	HAR-26, RD-08, RD-11, RD-12
PCBs	RD-19
Nitroaromatics, nitramines	RD-13
Perchlorate	RD-13
NDMA	RD-13
Formaldehyde	HAR-26, RD-08, RD-11, RD-12, RD-13
Dioxins/Furans	RD-20
Hydrazines	RD-13

EFHs, SVOCs, nitroaromatics, nitramines, perchlorate, NDMA, PCBs, dioxins and furans, and hydrazines were not detected (Tables V, VIII, IX, X, XII, and XIII). Formaldehyde concentrations were less than the California drinking water NL of 100 μg/L (Table X). Detected anthracene results in groundwater samples from HAR-26

and RD-08 at 0.21 J and 0.33 J µg/L, respectively, were consistent with concentrations reported during the second quarter 2008 (Table VIII; Haley & Aldrich, 2008e). No MCL, NL, or AAL has been established for anthracene.

Concentrations of dissolved metals were below MCLs and NLs (Table VII) with the following exceptions:

- Arsenic was detected above the 0.05 mg/L MCL in the filtered groundwater sample collected from RD-57 at a concentration of 0.142 mg/L. This result is greater than the historical range of results. Arsenic was previously detected in groundwater samples collected from well RD-57 in March 2005 at a maximum concentration of 0.006 mg/L (Haley & Aldrich, 2006).

- Manganese was detected above the 0.5 mg/L NL in the filtered groundwater sample collected from RD-85 at a concentration of 1.15 mg/L. This result is greater than the historical range of results. Manganese was previously detected in groundwater samples collected from well RD-85 in March 2008 at a maximum concentration of 0.495 mg/L (Haley & Aldrich, 2008c).

C. *New Well Monitoring* - Groundwater monitor well RD-98 was constructed in June 2008 at the former Radioactive Materials Handling Facility (RMHF) Leach Field in Area IV. RD-98 groundwater was sampled and analyzed for VOCs, EFHs, dissolved (filtered) and total (unfiltered) metals, radionuclides, SVOCs, perchlorate, and inorganic constituents in June and September 2008 (Haley & Aldrich, 2008b; Tables IV, V, VI, VIII, IX, and XI). Results of radiochemistry analyses are discussed in Section 2.2.2.5 of this report. EFHs, SVOCs, and perchlorate were not detected (Tables V, VIII, and IX). Dissolved (filtered) and total (unfiltered) metals did not exceed MCLs or NLs (Table VII). Inorganic constituents did not exceed primary drinking water MCLs (Table XI).

Concentrations of VOCs in RD-98 groundwater were below MCLs and NLs (Table IV) with the following exception:

- TCE was detected above the 5 µg/L MCL at a concentration of 9.7 µg/L in the June sample and 8.8 µg/L in the September sample.

2.2.3 Perchlorate Characterization Sampling

Groundwater sampling for the analysis of perchlorate in Facility groundwater has been conducted since 1997. Characterization and remediation activities were conducted in Happy Valley in Area I, and investigation of perchlorate was conducted in drainages north and east of the Facility (Figure 4; MWH, 2003a, 2003b, 2003c, 2003f). As part of the Perchlorate Characterization Work Plan (MWH, 2003e), well

OS-09 is monitored quarterly and the other wells identified in the work plan are monitored annually.

The analytical results of perchlorate groundwater sampling conducted during the third quarter 2008 as part of the Perchlorate Characterization Work Plan and the Happy Valley Interim Measures program are reported in this section.

2.2.3.1 Monitoring

Groundwater samples collected from select wells were analyzed for perchlorate and general mineral constituents as described in the Perchlorate Characterization Work Plan (MWH, 2003e). Water samples collected from well OS-09 also were submitted for analysis of the stable isotopes deuterium and oxygen-18 (Table XI). Results of analyses for perchlorate in groundwater are summarized in Table IX and for general minerals in Table XI.

General mineral constituent analyses included major anions (carbonate, bicarbonate, chloride, and sulfate), major cations (calcium, magnesium, sodium, and potassium), nitrate, specific conductance, total dissolved solids, and pH (Table XI).

Most of the annual monitoring for perchlorate characterization was conducted earlier in the year (Haley & Aldrich, 2008c, 2008e). Wells scheduled and sampled for perchlorate characterization during the third quarter 2008 are listed below.

Perchlorate Characterization Sampling, Third Quarter 2008	
Wells Sampled	OS-09, OS-25 (nitrate only collected due to limited water), RD-37
Wells Not Sampled due to Lack of Groundwater	PZ-062, RD-36A, RD-39A, RD-51A, RD-52A
Wells Not Sampled for Other Reasons	OS-15 (access agreement pending) OS-24 (FLUTe liner not removed) RD-45A (borehole collapsed) RD-76 (borehole collapsed)

As part of the Happy Valley Interim Measures project, wells RS-02, RD-73, RD-77, HAR-24, and HAR-25 and piezometers PZ-003, PZ-067A, PZ-067B, and PZ-068 were monitored for perchlorate and bromide. During the third quarter 2008, wells HAR-24, HAR-25, and RD-73 contained sufficient water for sampling (Tables IX and XI). RD-77 was not sampled during the third quarter because a Snap Sampler system was installed (MWH, 2007a).

2.2.3.2 Perchlorate Results

Perchlorate Characterization Work Plan

Perchlorate was not detected in groundwater samples collected from well OS-09 or the other Perchlorate Characterization Work Plan wells sampled during the third quarter 2008 (Table IX).

Perchlorate was not detected in groundwater samples collected from off-site wells.

Happy Valley Interim Measures

Perchlorate was detected in each of the groundwater samples collected in support of the Happy Valley Interim Measures project: HAR-24, HAR-25, and RD-73 (Table IX). Perchlorate concentrations in these groundwater samples were within historical ranges as shown below (Haley & Aldrich, 2005, 2006, 2007, 2008a, 2008c, 2008e). The MCL for perchlorate is 6 μg/L.

Perchlorate Concentrations (μg/L)		
Well	Third Quarter 2008 Sample Concentration	Range of Previous Sample Concentrations
RD-73	90 (120 split sample)	4.4 – 244
HAR-24	189 J (190 split sample)	3 – 750
HAR-25	27.6 J (31 split sample)	4 U – 480

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
U = Not detected.

Procedures for perchlorate sampling and analysis include verification procedures such as spiking of samples and reanalysis of samples using liquid chromatography/mass spectrometry/mass spectrometry (LC/MS/MS) methods (e.g., EPA Method 8321). These verification procedures are presented in the Quality Assurance Project Plan (QAPP) for the Perchlorate Characterization Work Plan (MWH, 2003e).

2.2.3.3 Bromide Results

Bromide was detected in groundwater samples collected in support of the Happy Valley Interim Measures project at wells RD-73 and HAR-24 at concentrations similar to those of previous samples (Table XI). Across the site, bromide concentrations in samples collected by the University of Waterloo ranged from 0.05 to 1.1 mg/L (Pierce, 2005).

Bromide Concentrations (mg/L)		
Well	Third Quarter 2008 Sample Concentration	Range of Previous Sample Concentrations
RD-73	1.4	0.34 J – 2.4
HAR-24	0.58	0.35 U – 1.2
HAR-25	0.4 U	0.25 U – 0.36 J
Site Wide*	---	0.05 – 1.1

* University of Waterloo sample results (Pierce, 2005).
J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
U = Not detected.

2.2.3.4 General Mineral Results

Inorganic constituents in groundwater samples (Table XI) did not exceed primary drinking water MCLs.

2.2.3.5 Stable Isotope Results

Results of stable isotope analyses for groundwater samples collected from well OS-09 are presented in Table XI, except for the deuterium analysis which was still in progress at the time this report was published. The isotopes are naturally occurring and are not indicators of site activities. The ratio of oxygen-18 to oxygen-16 expressed as the deviation from Vienna Standard Mean Ocean Water (V-SMOW) was -7.36 per mil in OS-09 groundwater.

2.2.4 Results of Third Quarter 2008 Verification Sampling

Follow-up and verification groundwater samples (primary, field duplicate, split, and field blank samples) were collected during the third quarter following detections of analytes in groundwater collected from Post-Closure Permit wells during the second quarter 2008 or earlier. The table below summarizes third quarter 2008 follow-up and verification sampling results:

Third Quarter 2008 Follow-up and Verification Sampling

Well	Monitoring Program	Constituent(s)	Primary	Duplicate	Split	Field Blank
			Sample Concentration (pg/L)			
HAR-07	Point of Compliance	OCDF	1.3 U	1.3 U	NA	1.4 U
		1,2,3,4,7,8,9-HpCDF	0.9 U	0.79 U	NA	0.78 U
HAR-16	Point of Compliance	OCDF	1.4 U	1.5 U	NA	2.2 U
HAR-17	Point of Compliance	OCDF	1.9 U	2.3 U	NA	1.8 U
			Sample Concentration (μg/L)			
OS-17	Voluntary	Carbon disulfide	0.4 U	0.4 U	0.45 U	0.4 U
RD-05B	Detection	Carbon disulfide	0.4 U	0.4 U	0.45 U	0.4 U
RD-06	Background	Trichloroethene	0.1 U	0.1 U	0.16 U	0.1 U
RD-36D	LUFT	Chloroethane	0.1 U	0.1 U	0.41 U	0.1 U
RD-37	Detection	Carbon disulfide	0.4 U	0.4 U	0.45 U	0.4 U
RD-43B	Detection	Carbon disulfide	0.6 U	0.4 U	0.45 U	0.6
RD-51C	Detection	Carbon disulfide	0.4 U	0.4 U	0.45 U	0.4 U
RD-61	Detection	Carbon disulfide	0.4 U	0.4 U	0.45 U	0.4 U
RD-68B	Voluntary	cis-1,2-DCE	0.1 U	0.1 U	0.17 J	0.1 U
RD-70	Perimeter	Carbon disulfide	0.4 U	0.4 U	0.45 U	0.4 U

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the MDL, or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
U = Not detected.
NA = Not applicable. No sample collected.

2.2.5 Proposed Fourth Quarter 2008 Groundwater Monitoring Schedule

The schedule proposed for the fourth quarter 2008 groundwater monitoring complies with that specified in the 1995 Post-Closure Permits. The third quarter 2008 and previous results indicated that additional sampling be conducted during the fourth quarter 2008 to determine if the following detected constituents are repeatable in consecutive groundwater samples:

Well	Monitoring Program	Constituent(s)	Samples Scheduled
HAR-08	CFOU RFI	VOCs	Verification
HAR-11	Evaluation	VOCs	Verification
RD-32	Detection, LUFT	VOCs, GRO	Verification
RD-39A	Detection	Trichloroethene	Verification
RD-43C	Detection	Benzene, toluene	Verification
RD-55B	CFOU RFI, Evaluation	VOCs	Verification
SH-02	SMOU RFI	Chlorinated pesticides	Verification and equipment rinsate
SH-03	SMOU RFI	Chlorinated pesticides	Verification and equipment rinsate
SH-04	Point of Compliance	Chlorinated pesticides	Verification and equipment rinsate
SH-05	SMOU RFI	Chlorinated pesticides	Verification and equipment rinsate
SH-08	SMOU RFI	Chlorinated pesticides	Verification and equipment rinsate
SH-09	SMOU RFI	Chlorinated pesticides	Verification and equipment rinsate

Verification = primary, field duplicate, split, and field blank samples.

3. REMEDIAL SYSTEMS

3.1 Remedial Systems Activities

There are five permitted remedial systems (Alfa, Bravo, Delta, STL-IV, and WS-05 Area) at SSFL. The Area I Road and Canyon air-stripping units and the RD-09 ultra-violet (UV)/hydrogen peroxide system were placed on "stand-by" status in 2001 as part of a Post-Closure Permit modification granted by DTSC (DTSC, 2001). Operation of the Delta system was discontinued in August 2007, and operation of the WS-05 Area UV/hydrogen peroxide system was discontinued in December 2007. Construction permitting for a new treatment system was initiated in October 2007, and construction is slated for completion in the first quarter 2009. Operational data for each permitted system during the quarter are presented in monthly reports from EnviroSolve Corporation (2008a through 2008c).

The 20 shallow and 12 Chatsworth Formation extraction wells were not in operation during the quarter. Table XIV summarizes the cumulative groundwater extraction volume for the remedial systems.

Because the treatment systems were not in operation, water quality samples were not collected during the quarter. Cumulative VOC mass removed by each treatment system is presented in Table XV.

Monthly groundwater level monitoring has been suspended at the inactive extraction wells. Groundwater levels measured during the quarterly groundwater monitoring event are presented in Table XVI.

In July 2008, Boeing, NASA, and DOE submitted to DTSC a revised Work Plan for groundwater interim measures at SSFL. The objective of the work plan is to comply with DTSC's requirements for conducting groundwater interim measures at SSFL as specified in the May 16, 2008 letter (DTSC, 2008).

4. SURFACE WATER DISCHARGE

Surface water discharge is regulated by NPDES permit No. CA-0001309. Outfalls 001 and 002 were dry during the third quarter 2008. Discharge Monitoring Reports (DMR) for the SSFL NPDES outfalls are available at www.boeing.com\aboutus\environment\santa_susana\water_quality.html.

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TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
Shallow Wells										
SH-01	III	10	16	0 - 10	4	0 - 10	0 - 5	5.5 - 10	1772.84	12/11/84
SH-02	III	10.6	16	0 - 10.6	4	0 - 10.6	0 - 5	6 - 10.6	1762.76	12/11/84
SH-03	III	9.5	16	0 - 9.5	4	0 - 9.5	0 - 4.6	5 - 9.5	1762.53	12/12/84
SH-04	III	17	16	0 - 17	4	0 - 13	0 - 8	9 - 13	1765.08	12/12/84
SH-05	III	10.5	16	0 - 10.5	4	0 - 10.5	0 - 5.6	6 - 10.5	1762.97	12/13/84
SH-06	III	11.5	16	0 - 11.5	4	0 - 11.5	0 - 6.2	7 - 11.5	1776.99	12/17/84
SH-07	III	13.5	16	0 - 13.5	4	0 - 13.5	0 - 8.5	9.5 - 13.5	1775.11	01/16/85
SH-08	III	12	16	0 - 12	4	0 - 11.4	0 - 5.2	5.9 - 11.4	1763.25	01/17/85
SH-09	III	9	16	0 - 9	4	0 - 9	0 - 3.5	4 - 9	1761.19	01/18/85
SH-10	III	8	16	0 - 8	4	0 - 7.5	0 - 2	3 - 7.5	1757.69	01/18/85
SH-11	III	17.5	16	0 - 17.5	4	0 - 17.5	0 - 11	13 - 17.5	1756.00	01/16/85
RS-01	I	24.5	16	0 - 24.5	4	0 - 24.5	0 - 12.5	14.5 - 24.5	1879.68	06/08/85
RS-02	I	26	16	0 - 26	4	0 - 26	0 - 15	16 - 26	1901.08	06/08/85
RS-03	I	21	16	0 - 21	4	0 - 21	0 - 10	11 - 21	1834.22	06/08/85
RS-04	I	30	16	0 - 30	4	0 - 30	0 - 18	20 - 30	1826.56	06/08/85
RS-05	I	20	16	0 - 20	4	0 - 20	0 - 7.5	10 - 20	1783.73	06/07/85
RS-06	I	18	16	0 - 18	4	0 - 18	0 - 7	8 - 18	1757.43	06/07/85
RS-07	I	7.5	16	0 - 7.5	4	0 - 7.5	0 - 1.6	2.5 - 7.5	1732.27	06/07/85
RS-08	II	12.5	16	0 - 12.5	4	0 - 12.5	0 - 5	7 - 12.5	1821.57	06/09/85
RS-09	III	26.2	16	0 - 26.2	4	0 - 26.2	0 - 14.2	16 - 26.2	1735.52	09/11/85
RS-10	II	17	16	0 - 17	4	0 - 17	0 - 6	7.3 - 17	1762.08	06/10/85
RS-11	IV	17.5	16	0 - 17.5	4	0 - 17.5	0 - 9	10 - 17.5	1790.39	06/10/85
RS-12	III	15.3	16	0 - 15.3	4	0 - 15.3	0 - 4	5 - 15.3	1727.48	06/09/85
RS-13	II	22.8	16	0 - 22.8	4	0 - 22.8	0 - 15	17 - 22.8	1645.13	06/11/85
RS-14	III	16	16	0 - 16	4	0 - 16	0 - 5	6 - 16	1734.78	06/09/85
RS-15	III	12	16	0 - 12	4	0 - 12	0 - 4.5	5 - 12	1764.86	06/10/85
RS-16	IV	20.5	16	0 - 20.5	4	0 - 20.5	0 - 14.5	16.5 - 20.5	1811.05	06/11/85
RS-17	III	16	16	0 - 16	4	0 - 16	0 - 4	6.4 - 16	1766.52	06/10/85
RS-18	IV	13	16	0 - 13	4	0 - 13	0 - 6	7.5 - 13	1802.86	06/12/85
RS-19	I	15	16	0 - 15	4	0 - 15	0 - 4.8	4.8 - 15	1812.42	09/12/85

See last page of table for notes and abbreviations.

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VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RS-20	I	20.5	16	0 - 20.5	4	0 - 20.5	0 - 8.5	10.5 - 20.5	1823.77	09/12/85
RS-21	II	29	16	0 - 29	4	0 - 24.6	0 - 3.5	14.5 - 24.6	1767.36	10/23/85
RS-22	II	31	16	0 - 31	4	0 - 31	0 - 4	21 - 31	1771.23	10/23/85
RS-23	IV	13	12	0 - 13	4	0 - 13	0 - 6.8	8 - 13	1887.25	08/23/88
RS-24	IV	8.5	12	0 - 8.5	4	0 - 8.5	0 - 3	4 - 8.5	1809.24	08/25/88
RS-25	IV	13.5	Trenched	0 - 13.5	4	0 - 13.5	0 - 2	8.5 - 13.5	1862.71	08/25/88
RS-26	Destroyed July 1989 During Soils Removal									
RS-27	IV	9	8	0 - 9	4	0 - 9	0 - 3	5 - 9	1804.78	08/02/88
RS-28	IV	19	8	0 - 19	4	0 - 19	0 - 9	14 - 19	1768.59	08/17/89
RS-29	II	38	9-7/8	0 - 38	4	0 - 37.5	0 - 17	27 - 37.5	1833.09	02/20/93
RS-30	I	23	12	0 - 23	4	0 - 21	0 - 9	10.5 - 21	1909.01	03/20/91
RS-31	I	18	12	0 - 18	4	0 - 17.5	0 - 6	7 - 17.5	1909.03	03/19/91
RS-32	I	18	12	0 - 18	4	0 - 17	0 - 6	6.5 - 17	1908.99	03/19/91
RS-54	IV	38	11-1/4	0 - 7	6-1/4	0 – 7	0 - 7		1846.66	08/09/93
			5-7/8	7 - 38	---	---		Open Hole		
ES-01	I	26	15	0 - 26	6	(v)1.3 - 25.5	0 - 6	15.5 - 25.5	1782.20	10/20/86
ES-02	I	17.5	15	0 - 17.5	6	(v)1.5 - 16.7	0 - 4.8	6.7 - 16.7	1814.60	10/20/86
ES-03	I	27	15	0 - 27	6	(v)1.3 - 27	0 - 9.4	17 - 27	1783.39	10/21/86
ES-04	I	20	15	0 - 20	6	(v)1.4 - 20	0 - 4	5.8 - 20	1817.24	10/21/86
ES-05	I	19	15	0 - 19	6	(v)1.3 - 19	0 - 5.8	9 - 19	1818.13	10/21/86
ES-06	I	25	15	0 - 25	6	0 - 25	0 - 5.6	11.6 - 25	1825.41	11/04/86
ES-07	I	23.2	15	0 - 23.2	6	0 - 23.2	0 - 6.5	8.5 - 23.2	1826.53	11/05/86
ES-08	I	24.1	15	0 - 24.1	6	0.6 - 24.1	0 - 4.7	12.1 - 24.1	1826.60	11/05/86
ES-09	I	24.2	15	0 - 24.2	6	0 - 24.2	0 - 3.4	11.9 - 24.2	1827.80	11/05/86
ES-10	I	20	15	0 - 20	6	0 - 20	0 - 5	9.7 - 20	1829.46	11/05/86
ES-11	I	27	15	0 - 27	6	0 - 27	0 - 4.2	7.2 - 27	1835.07	11/06/86
ES-12	I	22.5	15	0 - 22.5	6	0 - 22.5	0 - 6.9	10.9 - 22.5	1838.19	11/06/86
ES-13	I	30	15	0 - 30	6	(v)1.2 - 23.6	0 - 3.1	6 - 23.6	1782.58	11/06/86
ES-14	III	24.6	15	0 - 24.6	6	0 - 23.5	0 - 9.4	12.9 - 23.5	1728.69	11/10/86
ES-15	III	24	15	0 - 24	6	0 - 24	0 -10.8	13.5 - 24	1730.21	11/10/86
ES-16	III	24.8	15	0 - 24.8	6	0 - 24.8	0 - 4.3	8.1 - 24.8	1737.90	11/10/86

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VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
ES-17	III	28	15	0 - 28	6	0 - 28	0 - 7.9	10.4 - 28	1739.31	11/11/86
ES-18	II	35	15	0 - 35	6	0 - 26.9	0 - 9.1	12.9 - 26.9	1770.25	11/11/86
ES-19	II	33	15	0 - 33	6	0 - 26.3	0 - 6.3	10.3 - 26.3	1769.44	11/11/86
ES-20	II	35	15	0 - 35	6	0 - 23	0 - 3.5	9.8 - 23	1770.58	11/13/86
ES-21	II	35	12	0 - 35	6	0 - 35	0 - 2.2	15.8 - 35	1769.62	01/26/87
ES-22	II	35.5	12	0 - 35.5	6	0 - 35.5	0 - 5.2	17.5 - 35.5	1770.93	01/27/87
ES-23	III	20	12	0 - 20	6	0 - 20	0 - 2.4	10.6 - 20	1760.73	01/27/87
ES-24	III	30	12	0 - 30	6	0 - 30	0 -11.7	18.3 - 30	1728.67	01/28/87
ES-25	III	35	12	0 - 35	6	0 - 35	0 - 9.2	19.5 - 35	1737.78	01/28/87
ES-26	III	35	12	0 - 35	6	0 - 34.5	0 - 8.7	17.5 - 34.5	1748.01	01/28/87
ES-27	III	35	12	0 - 35	6	0 - 35	0 - 9.5	15.3 - 35	1740.67	01/28/87
ES-28	III	21	12	0 - 21	6	0 - 21	0 - 1.7	8.9 - 21	1759.15	01/28/87
ES-29	III	28	12	0 - 28	6	0 - 28	0 - 8.4	11.6 - 28	1760.47	01/29/87
ES-30	III	25	12	0 - 25	6	0 - 25	0 - 5.5	10.1 - 25	1759.51	01/29/87
ES-31	IV	25	12	0 - 25	6	0 - 25	0 - 9.7	11.6 - 25	1787.01	01/29/87
ES-32	III	25	12	0 - 25	6	0 - 21.5	0 - 4.6	7.5 - 21.5	1740.65	01/29/87
HAR-02	I	30	8	0 - 30	4	(v)1.1 - 30	0 - 6.2	15.4 - 30	1886.38	05/12/87
HAR-03	I	30	8	0 - 30	4	0 - 30	0 - 6.2	14.7 - 30	1875.48	05/13/87
HAR-04	I	29	8	0 - 29	4	0 - 29	0 - 6.4	12.1 - 29	1873.40	05/13/87
HAR-09	II	30.5	8	0 - 30.5	4	0 - 30.5	0 - 5.9	16.1 - 30.5	1820.62	05/16/87
HAR-11	II	31	8	0 - 31	4	0 - 31	0 - 5	11.2 - 31	1827.90	05/16/87
HAR-12	III	30.5	8	0 - 30.5	4	0 - 30.5	0 - 3.5	15.5 - 30.5	1796.73	05/17/87
HAR-13	III	31.6	8	0 - 31.6	4	0 - 31.6	0 - 5.5	17.4 - 31.6	1801.18	05/17/87
HAR-14	III	40	8	0 - 40	4	0 - 40	0 - 5.5	11.8 - 40	1797.02	05/19/87
HAR-15	II	40	8	0 - 40	4	0 - 40	0 - 5	10.2 - 40	1809.69	05/19/87
HAR-27	II	40	8	0 - 40	4	0 - 40	0 - 3	21 - 40	1719.39	06/14/87
HAR-28	II	40	8	0 - 40	4	0 - 40	0 - 6	20 - 40	1720.17	06/14/87
HAR-29	II	40.2	8	0 - 40.2	4	0 - 40.2	0 - 7	20 - 40.2	1724.13	06/14/87
HAR-30	II	35	8	0 - 35	4	0 - 35	0 - 6.5	14 - 35	1806.47	06/15/87
HAR-31	II	40	8	0 - 40	4	0 - 40	0 - 6	22 - 40	1812.45	06/15/87
HAR-32	III	40	8	0 - 40	4	0 - 40	0 - 6	21 - 40	1736.58	06/17/87

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BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
HAR-33	III	35	8	0 - 35	4	0 - 35	0 - 6	18 - 35	1744.66	06/17/87
HAR-34	III	23	8	0 - 23	4	0 - 23	0 - 3	9 - 23	1751.17	06/17/87
SRE-NS-E	IV	27	10-5/8	0 - 27	4	0 - 27	0 - 14	17 - 27	1851.41	06/09/08
SRE-NS-N	IV	28	10-5/8	0 - 28	4	0 - 28	0 - 15	18 - 28	1852.23	06/06/08
SRE-NS-W	IV	27.5	10-5/8	0 - 27.5	4	0 - 27.5	0 - 14.5	17.5 - 27.5	1852.23	06/11/08
CHATSWORTH FORMATION										
RD-01	I	506	15	0 - 26	10-1/8	0 - 26	0 - 26		1935.89	01/09/86
			8-5/8	26 - 506	---	---		Open Hole		
RD-02	I	400	15	0 - 26	10-1/8	0 - 26	0 - 26		1873.92	01/16/86
			8-5/8	26 - 400	---	---		Open Hole		
RD-03	I	300	15	0 - 27	10-1/8	0 - 27	0 - 27		1743.50	01/10/86
			8-5/8	27 - 300	---	---		Open Hole		
RD-04	II	496	15	0 - 27	10-1/8	0 - 27	0 - 27		1883.85	01/22/86
			8-5/8	27 - 496	---	---		Open Hole		
RD-05A	UL-S	158	12-1/4	0 - 29.5	8-1/4	0 - 29.5	0 - 29.5		1704.66	02/17/93
			6-1/4	29.5 - 158	---	---		Open Hole		
RD-05B	UL-S	310	15	0 - 27	10-1/8	0 - 27	0 - 27		1705.89	05/20/93
			9-7/8	27 - 310	5	0 - 310	0 - 248	257.6 - 310		
RD-05C	UL-S	480	17-1/2	0 - 29	12-1/8	0 - 28	0 - 29		1705.25	06/27/94
			11-7/8	29 - 421	6-1/4	0 - 418	0 - 421			
			6-1/4	421 - 480	---	---		Open Hole		
RD-06	UL-S	260	15	0 - 27	10-1/8	0 - 27	0 - 27		1617.21	01/31/86
			9-7/8	27 - 136	6-1/4	0 - 140		70 - 140		
			8-5/8	136 - 260	---	---		Open Hole		
RD-07	IV	300	15	0 - 25	10-1/8	0 - 25	0 - 25		1812.82	01/08/86
			8-5/8	25 - 300	---	---		Open Hole		
RD-08	III	50	15	0 - 27	10-1/8	0 - 27	0 - 27		1763.38	01/29/86
			8-5/8	27 - 50	---	---		Open Hole		
RD-09	II	200	15	0 - 37	10-1/8	0 - 37	0 - 37		1768.20	01/28/86
			8-5/8	37 - 200	---	---		Open Hole		

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Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-10	I	400	15	0 - 30	10-1/8	0 - 30	0 - 30		1904.43	05/07/86
			8-3/8	30 - 400	---	---		Open Hole		
RD-11	III	71	15	0 - 30	10-1/8	0 - 30	0 - 30		1762.65	10/23/86
			8-3/8	30 - 71	---	---		Open Hole		
RD-12	III	72	15	0 - 30	10-1/8	0 - 30	0 - 30		1762.62	10/23/86
			8-3/8	30 - 72	---	---		Open Hole		
RD-13	IV	160	12	0 - 30	8-1/4	0 - 30	0 - 30		1840.27	07/25/89
			6-1/2	30 - 160	---	---		Open Hole		
RD-14	IV	125	12	0 - 30	8-1/4	0 - 30	0 - 30		1824.29	07/27/89
			6-1/2	30 - 125	---	---		Open Hole		
RD-15	IV	152	12	0 - 30	8-1/4	0 - 30	0 - 30		1817.70	07/27/89
			6-1/2	30 - 152	---	---		Open Hole		
RD-16	IV	220	12	0 - 30	8-1/4	0 - 30	0 - 30		1808.99	08/15/89
			6-1/2	30 - 220	---	---		Open Hole		
RD-17	IV	125	12	0 - 30	8-1/4	0 - 30	0 - 30		1836.30	08/10/89
			6-1/2	30 - 125	---	---		Open Hole		
RD-18	IV	240	12	0 - 30	8-1/4	0 - 30	0 - 30		1839.49	07/28/89
			6-1/2	30 - 240	---	---		Open Hole		
RD-19	IV	135	12	0 - 30	8-1/4	0 - 30	0 - 30		1853.13	07/31/89
			6-1/2	30 - 135	---	---		Open Hole		
RD-20	IV	127	12	0 - 30	8-1/4	0 - 30	0 - 30		1819.72	07/27/89
			6-1/2	30 - 127	---	---		Open Hole		
RD-21	IV	175	12	0 - 30	8-1/4	0 - 30	0 - 30		1866.96	08/11/89
			6-1/2	30 - 175	---	---		Open Hole		
RD-22	IV	440	12	0 - 30	8-1/4	0 - 30	0 - 30		1853.41	08/15/89
			6-1/2	30 - 440	---	---		Open Hole		
RD-23	IV	440	12	0 - 30	8-1/4	0 - 30	0 - 30		1838.19	08/16/89
			6-1/2	30 - 440	---	---		Open Hole		
RD-24	IV	150	12	0 - 30	8-1/4	0 - 30	0 - 30		1809.93	08/09/89
			6-1/2	30 - 150	---	---		Open Hole		

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TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-25	IV	Well abandoned April 2004 as part of Building 4059 demolition.								
RD-26	II	160	12	0 - 30	8-1/4	0 - 30	0 - 30		1880.39	08/03/89
			6-1/2	30 - 160	---	---		Open Hole		
RD-27	IV	150	12	0 - 30	8-1/4	0 - 30	0 - 30		1841.67	08/10/89
			6-1/2	30 - 150	---	---		Open Hole		
RD-28	IV	Well abandoned April 2004 as part of Building 4059 demolition.								
RD-29	IV	100	12	0 - 30	8-1/4	0 - 30	0 - 30		1806.29	08/10/89
			6-1/2	30 - 100	---	---		Open Hole		
RD-30	IV	75	12	0 - 30	8-1/4	0 - 30	0 - 30		1768.69	08/11/89
			6-1/2	30 - 75	---	---		Open Hole		
RD-31	I	542	12	0 - 30	8-1/4	0 - 30	0 - 30		1945.02	08/16/89
			6-1/2	30 - 178	---	---		Open Hole		
			3.8	178 - 542	---	---		Open Hole		11/14/05
RD-32	OS	150	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1808.47	02/09/94
			11-7/8	19 - 99	6-1/4	0 - 99	0 - 99			
			5-7/8	99 - 150	---	---		Open Hole		
RD-33A	UL-N	320	17-1/2	0 - 11	12-1/8	0 - 11	0 - 11		1792.97	09/27/91
			11	11 - 100	6-1/4	0 - 100	0 - 100			
			5-1/2	100 - 320	---	---		Open Hole		
RD-33B	UL-N	415	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1793.21	09/27/91
			11	20 - 360	6-1/4	0 - 360	20 - 360			
			6-1/4	360 - 415	---	---		Open Hole		
RD-33C	UL-N	520	17-1/2	0 - 10	12-1/8	0 - 10	0 - 10		1793.54	09/21/91
			11	10 - 480	6-1/4	0 - 480	0 - 480			
			6-1/4	480 - 520	---	---		Open Hole		
RD-34A	UL-N	60	12-1/4	0 - 16	8-1/4	0 - 16	0 - 16		1761.83	07/25/91
			6-1/2	16 - 60	---	---		Open Hole		
RD-34B	UL-N	240	17-1/2	0 - 30	12-1/8	0 - 30	0 - 30		1762.51	08/11/91
			11	30 - 180	6-1/4	0 - 180	0 - 180			
			6-1/4	180 - 240	---	---		Open Hole		

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TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-34C	UL-N	450	17-1/2	0 - 30	12-1/8	0 - 30	0 - 30		1762.60	08/10/91
			11	30 - 380	6-1/4	0 - 380	0 - 380			
			6-1/4	380 - 450	---	---		Open Hole		
RD-35A	I	110	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1908.62	01/24/93
			6-1/4	19.5 - 110	4	0 - 105.5	0 - 30	65 - 105.5		
RD-35B	I	328	24	0 – 10	18	0 - 10	0 - 10		1905.65	01/18/99
			17-1/2	10 – 162	12	0 - 158	0 - 162			
			9-7/8	162 – 328	4	0 - 324	0 - 292	303 - 324		
			3	328 – 359	---	---	328 - 359			
RD-36A	OS	95	17-1/2	0 – 20	12-1/8	0 - 20	0 - 20		1913.09	01/14/94
			6-1/4	20 – 95	---	---		Open Hole		
RD-36B	OS	170	17-1/2	0 – 20.5	12-1/8	0 - 20.5	0 - 20.5		1915.26	03/13/94
			11-7/8	20.5 – 120	6-1/4	0 - 120	0 - 120			
			5-7/8	120 – 170	---	---		Open Hole		
RD-36C	OS	466	26	0 – 20	20	0 - 20	0 - 20		1913.82	04/23/94
			15	20 – 198	10-1/8	0 - 197	0 - 198			
			5-7/8	198 – 466	4	0 - 455.5	0 - 381	405 - 455.5		
RD-36D	OS	605	24-1/2	0 – 10	18	0 - 10	0 - 10		1920.08	09/10/97
			15	10 – 554	10	0 - 550	0 - 550			
			9-7/8	554 – 608	4	0 - 605	0 - 560	575 - 605		
RD-37	OS	400	17-1/2	0 – 38	12-1/8	0 - 38	0 - 38		1870.01	01/28/94
			11-7/8	38 – 260	4	0 - 377				
			7-7/8	260 – 400				272 - 377		
RD-38A	OS	120	17-1/2	0 – 20	12-1/8	0 - 20	0 - 20		1879.47	02/12/94
			6-1/2	20 – 120	---	---		Open Hole		
RD-38B	OS	370	24	0 - 6	18	0 - 6	0 - 6		1881.45	12/15/98
			17-1/2	6 - 170	12	0 - 161	0 - 170			
			11-7/8	170 - 279	6	0 - 277	0 - 279			
			5-1/2	279 - 370	---	---		Open Hole		
RD-39A	OS	159	17-1/2	0 – 20	12-1/8	0 - 20	0 - 20		1960.23	02/02/94
			6-1/2	20 – 159	---	---		Open Hole		

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TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-39B	OS	477	24	0 – 12	16	0 - 12	0 - 12		1959.48	11/11/97
			15	12 – 213	10	0 - 210	0 - 213			
			9-1/2	213 – 477	4	0 – 470	0 – 424	440 - 470		
			6-1/2	477 – 500	---	---	477 – 500			
RD-40	II	300	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1972.02	01/08/93
			6-1/4	19.5 - 300	---	---		Open Hole		
RD-41A	II	120	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1774.48	01/10/93
			6-1/4	19.5 - 120	---	---		Open Hole		
RD-41B	II	390	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1774.71	10/19/93
			11-7/8	19.5 - 340	6-1/4	0 - 336	0 - 340			
			5-7/8	340 - 390	---	---		Open Hole		
RD-41C	II	558	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1773.73	10/05/93
			11-1/4	19.5 - 492	6-1/4	0 - 491	0 - 492			
			6-1/4	492 - 558	---	---		Open Hole		
RD-42	II	120	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1945.46	01/09/93
			6-1/4	19.5 - 120	---	---		Open Hole		
RD-43A	OS	98	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1680.16	09/09/94
			6-1/2	19.5 - 98	---	---		Open Hole		
RD-43B	OS	295	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1680.21	10/25/94
			11-7/8	20 - 240.5	6-1/4	0 – 240.5	0 – 30.5			
			6-1/2	240.5 – 295	---	---	115.5 – 240.5	Open Hole		
RD-43C	OS	439.5	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1679.31	10/10/94
			11-7/8	20 - 370	6-1/4	0 - 370	5 - 140			
			6-1/2	370 - 439.5	---	---	183 - 219	Open Hole		
							318 - 368			
RD-44	I	485	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		2035.92	03/13/93
			6-1/4	20 - 485	---	---		Open Hole		
RD-45A	I	480	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1841.59	02/06/93
			6-1/2	19.5 - 480	---	---		Open Hole		

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TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-45B	I	590	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1840.09	09/11/94
			11-7/8	20 - 538	6-1/4	0 - 538	0 - 127			
			6-1/2	538 - 590	---	---	471 - 538	Open Hole		
RD-45C	I	798	24	0 - 20	16	0 - 19	0 - 20		1835.74	08/26/94
			11-7/8	20 - 750	6-1/4	0 - 750	0 - 135			
			6-1/4	750 - 798	---	---	483 - 540	Open Hole		
							590 - 750			
RD-46A	I	140	12-1/4	0 - 29.5	8-1/4	0 - 29.5	0 - 29.5		1806.13	01/13/93
			6-1/4	29.5 - 140	---	---		Open Hole		
RD-46B	I	328	24	0 - 20	18	0 - 20	0 - 20		1807.19	12/19/98
			17-1/2	20 - 193	12	0 - 190	0 - 193			
			9-7/8	193 - 328	4	0 - 325	0 - 281	293 - 325		
			3	328 - 366	---	---	328 - 366			
RD-47	I	710	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		2045.72	04/01/93
			6-1/2	19.0 - 710	---	---		Open Hole		
RD-48A	UL-S	110	12-1/4	0 - 20	8-1/4	0 - 20	0 - 20		1736.54	03/15/93
			6-1/2	20 - 110	---	---		Open Hole		
RD-48B	UL-S	248	17-1/2	0 - 29.5	12-1/8	0 - 29.5	0 - 29.5		1735.40	05/26/93
			11-1/4	29.5 - 200	6-1/4	0 - 200	0 - 198.5			
			6-1/4	200 - 248	---	---		Open Hole		
RD-48C	UL-S	438	17-1/2	0 - 30	12-1/8	0 - 30	0 - 30		1734.95	05/16/93
			11-1/4	30 - 371	6-1/4	0 - 371	0 - 371			
			6-1/4	371 - 438	---	---		Open Hole		
RD-49A	II	50	12-3/4	0 - 18.5	8-1/4	0 - 18.5	0 - 18.5		1867.25	06/08/93
			6-1/4	18.5 - 50	---	---		Open Hole		
RD-49B	II	298	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1867.95	06/14/93
			11-7/8	20 - 250	6-1/4	0 - 250	0 - 250			
			5-7/8	250 - 298	---	---		Open Hole		
RD-49C	II	558	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1869.45	07/07/93
			11-7/8	19 - 500	6-1/4	0 - 491	0 - 491			
			6-1/4	500 - 558	---	---		Open Hole		

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TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-50	IV	195	12-3/4	0 - 18.5	8-1/4	0 - 18.5	0 - 18.5		1914.88	05/28/93
			6-1/4	18.5 - 195	---	---		Open Hole		
RD-51A	II	250	24	0 - 50	12-1/8	0 - 50	0 - 50		1832.51	07/11/91
			11-3/4	50 - 160	6-1/4	0 - 160	0 - 160			
			5-1/2	160 - 250	---	---		Open Hole		
RD-51B	II	370	24	0 - 48	12-1/8	0 - 48	0 - 48		1832.68	07/11/91
			11-3/4	48 - 300	6-1/4	0 - 300	0 - 300			
			5-1/2	300 - 370	---	---		Open Hole		
RD-51C	II	602	14	0 - 13.5	12-1/8	0 - 13.5	0 - 13.5		1831.65	07/09/91
			11-3/4	13.5 - 510	6-1/4	0 - 510	0 - 510			
			5-1/2	510 - 602	---	---		Open Hole		
RD-52A	I	137	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1755.09	01/25/93
			6-1/2	19.5 - 137	---	---		Open Hole		
RD-52B	I	318	17-1/2	0 - 24	12-1/8	0 - 24	0 - 24		1712.15	12/06/93
			11-1/4	24 - 200	6-1/4	0 - 200	0 - 199			
			5-7/8	200 - 318	---	---		Open Hole		
RD-52C	I	678	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1712.83	11/29/93
			11-7/8	20 - 450			0 - 620			
			11-1/4	450 - 620	6-1/4	0 - 620				
			6-1/4	620 - 678	---	---		Open Hole		
RD-53	I	159	14	0 - 20	12-1/8	0 - 20	0 - 20		1909.19	05/15/91
			12	20 - 77	6-1/4	0 - 77	0 - 77			
			5-1/2	77 - 159	---	---		Open Hole		
RD-54A	IV	278	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1841.72	08/07/93
			11-1/4	19 - 119	6-1/4	0 - 119	0 - 119			
			5-7/8	119 - 278	---	---		Open Hole		
RD-54B	IV	437	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1842.54	08/31/93
			11-1/4	19 - 379	6-1/4	0 - 379	0 - 379			
			5-7/8	379 - 437	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-54C	IV	638	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1843.77	07/27/93
			11-1/4	20 - 558	6-1/4	0 - 557	0 - 557			
			6-1/4	558 - 638	---	---		Open Hole		
RD-55A	III	106	17-1/2	0 - 28	12-1/8	0 - 28	0 - 28		1756.87	02/19/93
			6-1/4	28 - 106	---	---		Open Hole		
RD-55B	III	250	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1757.19	04/19/93
			11	20 - 199.5	6-1/4	0 - 199.5	0 - 199.5			
			5-7/8	199.5 - 250	---	---		Open Hole		
RD-56A	UL-N	397.5	17-1/2	0 - 20.5	12-1/8	0 - 20.5	0 - 20.5		1758.62	03/08/94
			6-1/2	20.5 - 397.5	---	---		Open Hole		
RD-56B	UL-N	463	22	0 - 10	16	0 - 10	0 -10		1761.83	07/24/97
			15	10 - 453	10	0 - 443	0 - 443			
			6-1/2	453 - 463	---	---		Open Hole		
RD-57	UL-N	419	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1774.15	02/23/94
			6-1/2	19.5 - 419	---	---		Open Hole		
RD-58A	III	126	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1756.11	02/01/93
			6-1/4	19.5 - 126	---	---		Open Hole		
RD-58B	III	268	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1761.34	08/28/94
			11-7/8	20 - 220	6-1/4	0 - 220	0 - 220			
			6-1/2	220 - 268	---	---		Open Hole		
RD-58C	III	498	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1759.59	08/09/94
			11-7/8	19 - 450	6-1/4	0 - 450	0 - 450			
			6-1/2	450 - 498	---	---		Open Hole		
RD-59A	OS	58	17-1/2	0 - 21	12-1/8	0 - 21	0 - 21		1340.50	05/19/94
			6-1/2	21 - 58	---	---		Open Hole		
RD-59B	OS	214	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1342.49	07/02/94
			6-1/2	19.5 - 214	2	0 - 209	0 - 161	178 - 209		
RD-59C	OS	398	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1345.41	07/02/94
			6-1/2	19 - 398	2	0 - 397	0 - 186			
							250 - 328	345.5 - 397		

See last page of table for notes and abbreviations.

TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-60	III	126	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1870.40	01/21/93
			6-1/4	19.5 - 126	---	---		Open Hole		
RD-61	I	129	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1845.87	04/26/94
			6-1/4	19 - 129	---	---		Open Hole		
RD-62	UL-S	238	17-1/2	0 - 20.7	12-1/8	0 - 20.7	0 - 19.5		1837.20	05/06/94
			6-1/2	20.7 - 238	---	---		Open Hole		
RD-63	IV	230	12-3/4	0 - 20	8-1/4	0 - 20	0 - 20		1764.85	05/10/94
			6-1/2	20 - 230	---	---		Open Hole		
RD-64	IV	398	12-1/4	0 - 19	8-1/4	0 - 19	0 - 19		1857.04	05/19/94
			6-1/2	19 - 398	---	---		Open Hole		
RD-65	IV	397	12-3/4	0 - 19	8-1/4	0 - 19	0 - 19		1819.14	08/14/94
			6-1/2	19 - 397	---	---		Open Hole		
RD-66	OS	225	22	0 - 19	12	0 - 19	0 - 19		1730.79	07/28/97
			6-1/2	19 - 225	---	---		Open Hole		
RD-67	UL-S	102	17-1/2	0 - 20	12	0 - 20	0 - 20		1901.71	09/19/97
			6-1/2	20 - 102	---	---		Open Hole		
RD-68A	OS	90	17-1/2	0 - 19	12	0 - 19	0 - 19		1307.64	06/05/97
			6-1/4	19 - 90	---	---		Open Hole		
RD-68B	OS	272	---	0 - 52	12	0 - 52	0 - 224	240 - 270	1312.44	06/11/97
			11-7/8	52 - 272	4	0 - 270				
RD-69	I	103	17-1/2	0 - 19	12	0 - 19	0 - 19		1831.28	06/16/97
			6-1/4	19 - 103	---	---		Open Hole		
RD-70	UL-N	278	17-1/2	0 - 19	12	0 - 19	0 - 19		1732.26	06/14/97
			6-1/2	19 - 278	---	---		Open Hole		
RD-71	OS	281	17-1/2	0 - 20	12	0 - 20	0 - 20		1740.02	07/27/97
			6-1/2	20 - 281	---	---		Open Hole		
RD-72	I	182	24	0 - 27	12	0 - 27	0 - 27		1907.25	12/23/97
			6-1/2	27 - 182	---	---		Open Hole		
RD-73	I	141	12	0 - 20	10	0 - 20	0 - 20		1901.60	07/19/95
			6	20 - 141	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-74	IV	101	17-1/2	0 - 30	12	0 - 30	0 - 30		1810.90	01/21/99
			6-1/2	30 - 101	---	---		Open Hole		
RD-75	UL-S	425	12-3/4	0 - 30	8	0 - 30	0 - 30		1613.30	11/24/03
			4-4/5	30 - 425	---	---		Open Hole		
RD-76	I	153	12-3/4	0 - 30	8	0 - 30	0 - 30		1772.27	12/03/03
			6	30 - 153	4	0 - 153	---	133 - 153		
			5-1/2	153-185	---	---	Fill 153-185			
RD-77	I	170	12-3/4	0 - 46	8	0 - 46	0 - 46		1918.48	12/03/03
			4-4/5	46 - 170	---	---		Open Hole		
RD-78	I	333	12-3/4	0 - 40	8	0 - 40	0 - 40		1819.84	12/09/03
			5-1/2	40 - 333	---	---		Open Hole		
RD-80	I	224	12-3/4	0 - 19	8	0 - 19	0 - 19		1740.18	12/01/03
			4-4/5	19 - 224	---	---		Open Hole		
RD-81	I	205	12-3/4	0 - 20	8	0 - 20	0 - 20		1705.77	06/14/04
			6	20 - 205	---	---		Open Hole		
RD-82	II	197	12-3/4	0 - 20	8	0 - 20	0 - 20		1676.73	06/09/04
			6	20 - 197	---	---		Open Hole		
RD-83	II	143	12-3/4	0 - 20	8	0 - 20	0 - 20		1661.18	06/16/04
			6	20 - 143	---	---		Open Hole		
RD-84	I	171	10	0 - 40	5	0 - 40	0 - 40		1907.83	12/15/03
			4	40 - 171	---	---		Open Hole		
RD-85	IV	90	13-3/8	0 - 20	8	0 - 20	0 - 20		1849.09	08/04/04
			5	20 - 90	---	---		Open Hole		
RD-86	IV	80	13-3/8	0 - 20	8	0 - 20	0 - 20		1830.51	08/09/04
			5	20 - 80	---	---		Open Hole		
RD-87	IV	60	13-3/8	0 - 20	8	0 - 20	0 - 20		1789.09	08/11/04
			5	20 - 60	---	---		Open Hole		
RD-88	IV	30	13-3/8	0 - 20	8	0 - 20	0 - 20		1774.62	08/16/04
			5	20 - 30	---	---		Open Hole		
RD-89	IV	50	13	0 - 30	8	0 - 30	0 - 30		1814.18	05/18/05
			3.8	30 - 50	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-90	IV	125	12-3/4	0 - 20	8	0 - 20	0 - 20		1784.75	03/11/04
			6	20 - 125	---	---		Open Hole		
RD-91	IV	140	12-3/4	0 - 20	8	0 - 20	0 - 20		1818.04	03/12/04
			6	20 - 140	---	---		Open Hole		
RD-92	IV	105	12-3/4	0 - 20	8	0 - 20	0 - 20		1833.74	03/16/04
			6	20 - 105	---	---		Open Hole		
RD-93	IV	60	13	0 - 20	8	0 - 20	0 - 20		1810.48	05/19/05
			3.8	20 - 60	---	---		Open Hole		
RD-94	UL, NW of IV	35	13	0 - 20.5	8	0 - 20.5	0 - 20.5		1744.38	05/15/05
			3.8	20.5 - 35	---	---		Open Hole		
RD-95	IV	80	13	0 - 50	8	0 - 50	0 - 50		1811.36	05/12/05
			3.8	50 - 80	---	---		Open Hole		
RD-96	IV	90	13	0 - 20	8	0 - 20	0 - 20		1805.14	05/03/06
			4	20 - 90	---	---		Open Hole		
RD-97	UL, NW of IV	74.5	13	0 - 20	8	0 - 20	0 - 20		1792.22	04/28/06
			4	20 - 74.5	---	---		Open Hole		
RD-98	IV	65	13-3/8	0 - 20	8-1/8	0 - 20	0 - 20		1808.73	06/04/08
			5-1/2	20 - 65	---	---	---	Open hole		
WS-04A	I	502	13	0 - 300	10-1/4	0 - 288	Unknown	96 - 288	1749.77	1953
			10	300 - 502	---	---		Open Hole		
WS-05	I	2304	>12-1/4	0 - 40	12	0 - 40	0 - 55		1830.20	1951
			12-1/4	40 - 2304	---	---		Open Hole		
WS-06	I	1440	30	0 - 6	12-1/8	0 - 450	0 - 6	306 - 450	1932.72	1953
			13	6 - 450	---	---				
			8-1/4	450 - 1440				Open Hole		
WS-07	IV	700	15	0 - 400	12-1/8	0 - 400	Unknown	216 - 400	1826.19	1954
			10	400 - 700	---	---		Open Hole		
WS-08	III	700	15	0 - 400	12-1/8	0 - 400	Unknown	192 - 400	1794.39	1954
			10	400 - 700	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
WS-09	II	1800	30	0 - 17	12-1/8	0 - 17	0 - 14		1883.99	1955
			15	17 - 690	---	---				
			10	690 - 1800				Open Hole		
WS-09A	II	541	30	0 - 34	14	0 - 34	0 - 20		1647.61	1956
			15	34 - 541	12-1/8	0 - 541				
					8-1/4	0 - 539		20 - 539		
WS-09B	II	220	16	0 - 220	---	---	Unknown	Open Hole	1796.89	1956
WS-11	III	677	13	0 - 400	12-1/8	0 - 400	Unknown	200 - 400	1748.70	1956
			9	400 - 677	8-1/4	365.5 - 615		365 - 615		
								Open Hole		
WS-12	I	1768	15	0 - 408	14	0 - 375	Unknown		1705.98	1956
			12	408 - 1768	---	---		Open Hole		
WS-13	II	940	>13	0 - 750	12-1/8	0 - 750	0 - 15	22 - 750	1658.62	1957
			11-1/2	750 - 940	---	---		Open Hole		
WS-14	I	1272	>16	0 - 40	16	0 - 40	Unknown		1878.23	1957
			12-3/4	40 - 1272	---	---		Open Hole		
WS-SP	II	203	Unknown	0 - 203	6	0 - 203	Unknown	Unknown	1766.76	Unknown
HAR-01	I	110	15	0 - 30	10-1/8	0 - 30	0 - 30		1874.13	05/16/87
			8	30 - 110	---	---		Open Hole		
HAR-05	II	180	15	0 - 30	10-1/8	0 - 30	0 - 30		1812.65	05/16/87
			8	30 - 180	---	---		Open Hole		
HAR-06	II	160	15	0 - 30	10-1/8	0 - 30	0 - 30		1815.03	05/16/87
			8	30 - 160	---	---		Open Hole		
HAR-07	II	100	15	0 - 30	10-1/8	0 - 30	0 - 30		1728.38	05/20/87
			8	30 - 100	---	---		Open Hole		
HAR-08	II	130	15	0 - 30	10-1/8	0 - 30	0 - 30		1730.75	05/20/87
			8	30 - 130	---	---		Open Hole		
HAR-16	I	120	15	0 - 30	10-1/8	0 - 30	0 - 30		1872.31	05/20/87
			8	30 - 120	---	---		Open Hole		
HAR-17	II	100	15	0 - 30	10-1/8	0 - 30	0 - 30		1711.59	05/20/87
			8	30 - 100	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
HAR-18	III	80	15	0 - 30	10-1/8	0 - 30	0 - 30		1749.41	05/20/87
			8	30 - 80	---	---		Open Hole		
HAR-19	II	220	15	0 - 30	10-1/8	0 - 30	0 - 30		1833.42	06/17/87
			8	30 - 220	---	---		Open Hole		
HAR-20	II	230	15	0 - 30	10-1/8	0 - 30	0 - 30		1830.47	06/16/87
			8	30 - 230	---	---		Open Hole		
HAR-21	II	130	15	0 - 30	10-1/8	0 - 30	0 - 30		1821.30	06/18/87
			8	30 - 130	---	---		Open Hole		
HAR-22	II	90	15	0 - 30	10-1/8	0 - 30	0 - 30		1816.41	06/18/87
			8	30 - 90	---	---		Open Hole		
HAR-23	III	90	15	0 - 30	10-1/8	0 - 30	0 - 30		1805.87	06/18/87
			8	30 - 90	---	---		Open Hole		
HAR-24	I	110	15	0 - 30	10-1/8	0 - 30	0 - 30		1906.89	06/18/87
			8	30 - 110	---	---		Open Hole		
HAR-25	I	90	15	0 - 30	10-1/8	0 - 30	0 - 30		1889.75	06/18/87
			8	30 - 90	---	---		Open Hole		
HAR-26	III	90	15	0 - 30	10-1/8	0 - 30	0 - 30		1763.23	06/18/87
			8	30 - 90	---	---		Open Hole		
PRIVATE OFF-SITE WELLS AND SPRINGS										
OS-01 (converted to RD-68B)	OS	288	Unknown	Unknown	10	0 - 52	Unknown		1310.34	Unknown
					---	---		Open Hole		
OS-02	OS	700	Unknown	Unknown	10	0 - 17	0 - 17		1237.01	03/18/59
					---	---		Open Hole		
OS-03	OS	100	Drilled with cable tools		8-1/4	0 - 59	0 - 30	30 - 60	1298.15	06/12/50
					---	---		Open Hole		
OS-04	OS	Well Construction Data Unresolved or Not Available							1334.00	
OS-05	OS	Well Construction Data Unresolved or Not Available								
OS-08(S)	OS									
OS-09	OS	Well Construction Data Unresolved or Not Available								
OS-10	OS	600	18	0 - 10	12-1/8	0 - 10	0 - 10		1016.97	12/54
			12	10 - 600	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
OS-12(S)	OS									
OS-13(S)	OS									
OS-15	OS	218	Drilled with		8-1/4	0 - 40	0 - 40		1404.86	08/27/60
			cable tools		---	---		Open Hole		
OS-16	OS	Well Construction Data Unresolved or Not Available							1785.05	
OS-17	OS	475	Drilled with		---	0 – 25			1564.07	04/64
			cable tools		---	---		Open Hole		
OS-21	OS	Well Construction Data Unresolved or Not Available							1900.39	
OS-24	OS	515	10	0 - 40	6-1/4	0 - 40	0 - 40		1947.30	12/02/87
			6	40 - 515	---	---		Open Hole		
OS-25	OS	515	10	0 - 36	6-1/4	0 - 36	0 - 36		2043.58	12/10/87
			6	36 - 515	---	---		Open Hole		
OS-26	OS	515	10	0 - 40	6-1/4	0 - 40	0 - 40		2080.58	11/16/87
			6	40 - 515	---	---		Open Hole		
OS-27	OS	477	10-1/4	0 - 30	10	0 - 5.5	0 - 30		2043.90	05/16/95
			6-1/8	30 - 477	6	0 - 30		Open Hole		
OS-28	OS	245	10	0 - 245	6	0 - 242	0 - 182	182 - 242		04/25/95

See last page of table for notes and abbreviations.

TABLE I
NOTES AND ABBREVIATIONS

1. Depth/intervals are measured in feet below land surface.
2. Well OS-01 was converted to well RD-68B in 1997.
3. (---) = No casing installed over the borehole interval specified; open hole.
4. (v) = Top of well below land surface, installed inside zero-grade vault.
5. S = Spring; construction data not applicable.
6. UL-N = Undeveloped land in northern part of Facility.
7. UL-S = Undeveloped land in southern part of Facility.
8. OS = Off-site

TABLE II
SUMMARY OF WATER LEVEL DATA, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Date of Measurement	Reference Point Elevation (feet above MSL)	Depth to Water (feet)	Static Water Level Elevation (feet above MSL)	Notes
Piezometers					
PZ-001C	08/04/08	1768.50	Dry	---	
PZ-001D	08/04/08	1768.50	Dry	---	
PZ-001E	08/04/08	1768.50	Dry	---	
PZ-001F	08/04/08	1768.50	Dry	---	
PZ-003	08/14/08	1897.85	Dry	---	
PZ-005	07/30/08	1800.97	18.21	1782.76	
PZ-006A	08/04/08	1765.82	Dry	---	
PZ-006C	08/04/08	1765.82	Dry	---	
PZ-006D	08/04/08	1765.82	Dry	---	
PZ-006E	08/04/08	1765.82	Dry	---	
PZ-009B	08/04/08	1761.44	Dry	---	
PZ-009D	08/04/08	1761.44	Dry	---	
PZ-009E	08/04/08	1761.44	Dry	---	
PZ-009F	08/04/08	1761.44	Dry	---	
PZ-016A	08/04/08	1854.34	Dry	---	
PZ-016B	08/04/08	1854.34	Dry	---	
PZ-016C	08/04/08	1854.34	Dry	---	
PZ-016D	08/04/08	1854.34	Dry	---	
PZ-016E	08/04/08	1854.34	Dry	---	
PZ-016F	08/04/08	1854.34	Dry	---	
PZ-016G	08/04/08	1854.34	Dry	---	
PZ-023	07/31/08	1758.96	Dry	---	
PZ-024	07/31/08	1770.30	22.82	1747.48	
PZ-025	07/31/08	1780.27	18.90	1761.37	
PZ-026	08/01/08	1755.75	19.28	1736.47	
PZ-027	07/31/08	1773.06	17.80	1755.26	
PZ-028	07/31/08	1788.47	34.52	1753.95	
PZ-041	07/31/08	1809.10	12.43	1796.67	
PZ-049	07/31/08	1884.75	Dry	---	
PZ-050	07/31/08	1765.50	Dry	---	
PZ-056	07/30/08	1805.86	Dry	---	
PZ-060	07/31/08	1868.90	Dry	---	
PZ-062	07/30/08	1716.57	Dry	---	
PZ-067A	07/30/08	1909.66	Dry	---	
PZ-067B	07/30/08	1909.06	Dry	---	
PZ-068	08/04/08	1894.02	Dry	---	
PZ-072	08/01/08	1768.19	UTM	---	(*)
PZ-075	08/04/08	1893.10	Dry	---	
PZ-102	07/31/08	1827.78	Dry	---	
PZ-103	07/31/08	1815.93	25.31	1790.62	
PZ-105	08/04/08	1803.87	16.99	1786.88	
PZ-106	07/29/08	1784.17	16.80	1767.37	
PZ-108	07/31/08	1809.36	13.52	1795.84	
PZ-109	07/31/08	1809.51	16.20	1793.31	
PZ-114	08/04/08	1818.19	47.46	1770.73	
PZ-116	08/04/08	1763.01	32.00	1731.01	
PZ-117	08/01/08	1845.90	23.81	1822.09	
PZ-121	07/31/08	1808.98	19.30	1789.68	

See page 8 of table for notes and abbreviations.

TABLE II
SUMMARY OF WATER LEVEL DATA, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Date of Measurement	Reference Point Elevation (feet above MSL)	Depth to Water (feet)	Static Water Level Elevation (feet above MSL)	Notes
PZ-122	07/29/08	1810.80	17.95	1792.85	
PZ-124	07/31/08	1764.11	Dry	---	
PZ-125	08/04/08	1783.91	Dry	---	
PZ-127	08/04/08	1877.19	65.51	1811.68	
Shallow Wells					
ECL-FD	07/31/08	1525.00	Dry	---	
ECL-Sump	07/31/08	1511.00	9.09	1501.91	
ES-01	07/29/08	1782.20	19.20	1763.00	
ES-02	07/29/08	1814.60	Dry	---	
ES-03	07/29/08	1783.39	20.39	1763.00	
ES-04	07/29/08	1817.24	13.14	1804.10	
ES-05	07/29/08	1818.13	12.65	1805.48	
ES-06	07/29/08	1825.41	16.43	1808.98	
ES-07	07/29/08	1826.53	Dry	---	
ES-08	07/29/08	1826.60	Dry	---	
ES-09	07/29/08	1827.80	Dry	---	
ES-10	07/29/08	1829.46	20.81	1808.65	
ES-11	07/29/08	1835.07	Dry	---	
ES-12	07/30/08	1838.19	23.80	1814.39	
ES-13	07/29/08	1782.58	17.44	1765.14	
ES-14	08/01/08	1728.69	21.96	1706.73	
ES-15	08/01/08	1730.21	24.51	1705.70	
ES-16	08/01/08	1737.90	24.22	1713.68	
ES-17	08/01/08	1739.31	20.30	1719.01	
ES-18	07/31/08	1770.25	27.05	1743.20	
ES-19	07/31/08	1769.44	26.29	1743.15	
ES-20	07/31/08	1770.58	Dry	---	
ES-21	07/31/08	1769.62	26.25	1743.37	
ES-22	07/31/08	1770.93	27.09	1743.84	
ES-23	07/31/08	1760.73	11.01	1749.72	
ES-24	08/01/08	1728.67	24.95	1703.72	
ES-25	08/01/08	1737.78	Dry	---	
ES-26	08/01/08	1748.01	18.47	1729.54	
ES-27	09/04/08	1740.67	13.87	1726.80	
ES-28	07/30/08	1759.15	10.15	1749.00	
ES-29	07/30/08	1760.47	11.12	1749.35	
ES-30	07/30/08	1759.51	9.87	1749.64	
ES-31	07/30/08	1787.01	16.00	1771.01	
ES-32	08/01/08	1740.65	19.64	1721.01	
HAR-02	08/04/08	1886.38	Dry	---	
HAR-03	08/01/08	1875.48	23.57	1851.91	
HAR-04	07/30/08	1873.40	20.46	1852.94	
HAR-09	07/31/08	1820.62	12.90	1807.72	
HAR-11	07/31/08	1827.90	17.92	1809.98	(C)
HAR-12	08/01/08	1796.73	UTM	---	(*)
HAR-13	08/01/08	1801.18	UTM	---	(*)
HAR-14	08/01/08	1797.02	15.87	1781.15	
HAR-15	08/01/08	1809.69	20.99	1788.70	
HAR-27	07/31/08	1719.39	29.98	1689.41	

See page 8 of table for notes and abbreviations.

TABLE II
SUMMARY OF WATER LEVEL DATA, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Date of Measurement	Reference Point Elevation (feet above MSL)	Depth to Water (feet)	Static Water Level Elevation (feet above MSL)	Notes
HAR-28	07/31/08	1720.17	27.51	1692.66	
HAR-29	07/31/08	1724.13	27.52	1696.61	
HAR-30	08/01/08	1806.47	UTM	---	(*)
HAR-31	08/01/08	1812.45	25.74	1786.71	
HAR-32	08/04/08	1736.58	20.29	1716.29	
HAR-33	08/04/08	1744.66	22.87	1721.79	
HAR-34	08/04/08	1751.17	20.54	1730.63	
RS-01	08/04/08	1879.68	Dry	---	
RS-02	08/14/08	1901.08	Dry	---	
RS-03	07/29/08	1834.22	Dry	---	
RS-04	07/29/08	1826.56	Dry	---	
RS-05	07/29/08	1783.73	20.79	1762.94	
RS-06	07/30/08	1757.43	Dry	---	
RS-07	07/30/08	1732.27	Dry	---	
RS-08	07/31/08	1821.57	12.06	1809.51	
RS-09	08/01/08	1735.52	Dry	---	
RS-10	08/04/08	1762.08	Dry	---	
RS-11	07/30/08	1790.39	16.04	1774.35	
RS-12	08/01/08	1727.48	Dry	---	
RS-13	07/29/08	1645.13	Dry	---	
RS-14	08/01/08	1734.78	Dry	---	
RS-15	07/30/08	1764.86	8.94	1755.92	
RS-16	07/29/08	1811.05	Dry	---	
RS-17	08/01/08	1766.52	13.93	1752.59	
RS-18	07/29/08	1802.86	12.50	1790.36	
RS-19	07/29/08	1812.42	Dry	---	
RS-20	08/14/08	1823.77	15.71	1808.06	
RS-21	08/04/08	1767.36	24.01	1743.35	
RS-22	07/31/08	1771.23	26.15	1745.08	
RS-23	07/29/08	1887.25	Dry	---	
RS-24	07/30/08	1809.24	Dry	---	
RS-25	07/30/08	1862.71	14.33	1848.38	
RS-27	07/29/08	1804.78	Dry	---	
RS-28	07/30/08	1768.59	11.65	1756.94	
RS-29	07/30/08	1833.09	Dry	---	
RS-30	08/04/08	1909.01	19.97	1889.04	
RS-31	08/04/08	1909.03	Dry	---	
RS-32	08/04/08	1908.99	Dry	---	
RS-54	08/19/08	1846.66	25.84	1820.82	
SH-01	07/31/08	1772.84	Dry	---	
SH-02	07/31/08	1762.76	9.82	1752.94	
SH-03	07/31/08	1762.53	9.63	1752.90	
SH-04	07/31/08	1765.08	11.00	1754.08	
SH-05	07/31/08	1762.97	Dry	---	
SH-06	07/31/08	1776.99	Dry	---	
SH-07	07/31/08	1775.11	Dry	---	
SH-08	07/31/08	1763.25	10.80	1752.45	
SH-09	07/31/08	1761.19	Dry	---	
SH-10	08/01/08	1757.69	Dry	---	

See page 8 of table for notes and abbreviations.

TABLE II
SUMMARY OF WATER LEVEL DATA, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Date of Measurement	Reference Point Elevation (feet above MSL)	Depth to Water (feet)	Static Water Level Elevation (feet above MSL)	Notes
SH-11	07/31/08	1756.00	Dry	---	
SRE-NS-E	07/30/08	1851.41	Dry	---	(C)
SRE-NS-N	07/30/08	1852.23	Dry	---	(C)
SRE-NS-W	07/30/08	1852.23	Dry	---	(C)
Chatsworth Formation Wells					
HAR-01	07/30/08	1874.13	57.85	1816.28	(C)
HAR-05	08/01/08	1812.65	26.44	1786.21	
HAR-06	08/01/08	1815.03	25.92	1789.11	
HAR-07	08/04/08	1728.38	67.74	1660.64	(C)
HAR-08	08/04/08	1730.75	48.04	1682.71	(C)
HAR-16	07/30/08	1872.31	55.53	1816.78	
HAR-17	08/01/08	1711.59	21.10	1690.49	
HAR-18	08/01/08	1749.41	22.30	1727.11	(C)
HAR-19	07/31/08	1833.42	188.93	1644.49	
HAR-20	07/31/08	1830.47	186.26	1644.21	
HAR-21	07/31/08	1821.30	12.21	1809.09	
HAR-22	08/01/08	1816.41	33.02	1783.39	
HAR-23	08/01/08	1805.87	24.33	1781.54	(C)
HAR-24	07/30/08	1906.89	90.23	1816.66	
HAR-25	07/30/08	1889.75	70.09	1819.66	
HAR-26	07/31/08	1763.23	23.32	1739.91	
OS-24	07/29/08	1947.30	UTM	---	(*)
OS-25	09/09/08	2043.58	465.73	1577.85	
OS-26	08/04/08	2080.58	225.41	1855.17	
RD-01	08/01/08	1935.89	202.51	1733.38	(C)
RD-02	08/04/08	1873.92	157.68	1716.24	
RD-03	07/30/08	1743.50	13.89	1729.61	
RD-04	07/31/08	1883.85	285.30	1598.55	
RD-05A	07/29/08	1704.66	82.52	1622.14	
RD-05B	07/29/08	1705.89	58.84	1647.05	
RD-05C	07/29/08	1705.25	51.42	1653.83	
RD-06	07/29/08	1617.21	46.22	1570.99	
RD-07	07/29/08	1812.82		---	(1)
RD-08	07/31/08	1763.38	12.20	1751.18	
RD-09	08/11/08	1768.20	27.14	1741.06	
RD-10	08/01/08	1904.43	185.05	1719.38	
RD-11	09/03/08	1762.65	29.48	1733.17	
RD-12	09/03/08	1762.62	29.22	1733.40	
RD-13	07/29/08	1840.27	56.10	1784.17	
RD-14	07/30/08	1824.29	60.91	1763.38	
RD-15	07/30/08	1817.70	47.75	1769.95	
RD-16	07/30/08	1808.99	48.01	1760.98	
RD-17	07/30/08	1836.30	27.74	1808.56	
RD-18	07/29/08	1839.49	86.60	1752.89	
RD-19	07/30/08	1853.13	77.00	1776.13	
RD-20	07/29/08	1819.72	43.80	1775.92	
RD-21	07/29/08	1866.96		---	(1)
RD-22	07/29/08	1853.41		---	(1)
RD-23	07/29/08	1838.19		---	(1)

See page 8 of table for notes and abbreviations.

TABLE II
SUMMARY OF WATER LEVEL DATA, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Date of Measurement	Reference Point Elevation (feet above MSL)	Depth to Water (feet)	Static Water Level Elevation (feet above MSL)	Notes
RD-24	07/29/08	1809.93	39.78	1770.15	
RD-26	07/30/08	1880.39	104.87	1775.52	
RD-27	09/04/08	1841.67	54.39	1787.28	
RD-29	07/29/08	1806.29	16.90	1789.39	
RD-30	07/30/08	1768.69	11.30	1757.39	
RD-31	07/30/08	1945.02	UTM	---	(*)
RD-32	08/04/08	1808.47	29.35	1779.12	
RD-33A	07/29/08	1792.97		---	(1)
RD-33B	07/29/08	1793.21	286.50	1506.71	
RD-33C	07/29/08	1793.54	285.60	1507.94	
RD-34A	07/29/08	1761.83	35.77	1726.06	
RD-34B	07/29/08	1762.51	39.33	1723.18	
RD-34C	07/29/08	1762.60	9.75	1752.85	
RD-35A	08/04/08	1908.62	89.45	1819.17	
RD-35B	08/04/08	1905.65	87.97	1817.68	(C)
RD-36A	08/04/08	1913.09	Dry	---	(C)
RD-36B	07/31/08	1915.26	141.92	1773.34	
RD-36C	07/31/08	1913.82	194.09	1719.73	
RD-36D	07/31/08	1920.08	364.04	1556.04	
RD-37	08/04/08	1870.01	293.65	1576.36	
RD-38A	07/30/08	1879.47	Dry	---	
RD-38B	09/05/08	1881.45	326.13	1555.32	
RD-39A	07/30/08	1960.23	152.82	1807.41	
RD-39B	07/31/08	1959.48	287.45	1672.03	
RD-40	08/01/08	1972.02	UTM	---	(C,*)
RD-41A	08/01/08	1774.48	60.74	1713.74	
RD-41B	08/01/08	1774.71	113.31	1661.40	(C)
RD-41C	08/01/08	1773.73	126.34	1647.39	
RD-42	08/01/08	1945.46	51.64	1893.82	
RD-43A	07/30/08	1680.16	42.95	1637.21	
RD-43B	07/30/08	1680.21	98.90	1581.31	
RD-43C	07/30/08	1679.31	96.20	1583.11	
RD-44	07/30/08	2035.92	400.97	1634.95	
RD-45A	07/30/08	1841.59	242.20	1599.39	(C)
RD-45B	07/30/08	1840.09	269.42	1570.67	
RD-45C	07/30/08	1835.74	264.95	1570.79	
RD-46A	07/30/08	1806.13	76.04	1730.09	
RD-46B	07/30/08	1807.19	70.36	1736.83	
RD-47	07/31/08	2045.72	450.13	1595.59	
RD-48A	07/29/08	1736.54	105.49	1631.05	
RD-48B	07/29/08	1735.40	130.34	1605.06	
RD-48C	07/29/08	1734.95	173.23	1561.72	
RD-49A	07/31/08	1867.25	23.69	1843.56	(C)
RD-49B	07/31/08	1867.95	223.22	1644.73	(C)
RD-49C	07/31/08	1869.45	267.60	1601.85	
RD-50	07/29/08	1914.88		---	(1)
RD-51A	07/30/08	1832.51	Dry	---	
RD-51B	07/30/08	1832.68	250.55	1582.13	
RD-51C	07/30/08	1831.65	236.68	1594.97	

See page 8 of table for notes and abbreviations.

TABLE II
SUMMARY OF WATER LEVEL DATA, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Date of Measurement	Reference Point Elevation (feet above MSL)	Depth to Water (feet)	Static Water Level Elevation (feet above MSL)	Notes
RD-52A	07/30/08	1755.09	127.15	1627.94	
RD-52B	07/30/08	1712.15	117.09	1595.06	
RD-52C	07/30/08	1712.83	117.34	1595.49	
RD-53	08/04/08	1909.19	141.43	1767.76	
RD-54A	07/29/08	1841.72		---	(1)
RD-54B	07/29/08	1842.54	232.80	1609.74	
RD-54C	07/29/08	1843.77	224.35	1619.42	
RD-55A	08/01/08	1756.87	26.90	1729.97	(C)
RD-55B	08/01/08	1757.19	48.70	1708.49	(C)
RD-56A	07/30/08	1758.62	321.18	1437.44	
RD-56B	07/30/08	1761.83	179.74	1582.09	
RD-57	07/29/08	1774.15		---	(1)
RD-58A	07/30/08	1756.11	78.25	1677.86	
RD-58B	07/30/08	1761.34	101.86	1659.48	
RD-58C	07/30/08	1759.59	117.80	1641.79	
RD-59A	08/14/08	1340.50	27.14	1313.36	
RD-59B	08/14/08	1342.49	-39.27	1381.76	(A)
RD-59C	08/14/08	1345.41	-41.58	1386.99	(A)
RD-60	07/30/08	1870.40	82.81	1787.59	
RD-61	07/30/08	1845.87	108.73	1737.14	
RD-62	07/29/08	1837.20	206.23	1630.97	
RD-63	07/30/08	1764.85	22.00	1742.85	
RD-64	07/29/08	1857.04		---	(1)
RD-65	07/29/08	1819.14		---	(1)
RD-66	08/04/08	1730.79	172.48	1558.31	
RD-67	07/29/08	1901.71	54.44	1847.27	(C)
RD-68A	08/14/08	1307.64	-3.46	1311.10	(A)
RD-68B	08/14/08	1312.44	UTM	---	(A,*)
RD-69	07/30/08	1831.28	47.37	1783.91	
RD-70	07/30/08	1732.26	150.33	1581.93	
RD-71	08/04/08	1740.02	183.71	1556.31	
RD-72	07/29/08	1907.25		---	(1)
RD-73	07/29/08	1901.60	81.94	1819.66	
RD-74	07/29/08	1810.90	62.70	1748.20	
RD-75	08/01/08	1613.30	388.31	1224.99	
RD-76	08/01/08	1772.27	128.05	1644.22	(C)
RD-77	07/29/08	1918.48	100.80	1817.68	(C)
RD-78	07/30/08	1819.84	243.68	1576.16	
RD-80	07/30/08	1740.18	144.43	1595.75	
RD-81	07/30/08	1705.77	110.17	1595.60	
RD-82	07/30/08	1676.73	81.17	1595.56	
RD-83	08/04/08	1661.18	66.07	1595.11	
RD-84	08/04/08	1907.82	133.48	1774.34	
RD-85	07/29/08	1849.09	60.75	1788.34	
RD-86	07/29/08	1830.51	40.57	1789.94	
RD-87	07/29/08	1789.09	45.55	1743.54	
RD-88	07/29/08	1774.62	24.70	1749.92	
RD-89	07/29/08	1814.18	39.50	1774.68	
RD-90	07/29/08	1784.75	31.51	1753.24	

See page 8 of table for notes and abbreviations.

TABLE II
SUMMARY OF WATER LEVEL DATA, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Date of Measurement	Reference Point Elevation (feet above MSL)	Depth to Water (feet)	Static Water Level Elevation (feet above MSL)	Notes
RD-91	07/29/08	1818.04	40.55	1777.49	
RD-92	07/30/08	1833.74	57.20	1776.54	
RD-93	07/29/08	1810.48	35.90	1774.58	
RD-94	07/29/08	1744.38	13.86	1730.52	
RD-95	07/29/08	1811.36	51.10	1760.26	(C)
RD-96	07/29/08	1805.14	57.90	1747.24	
RD-97	07/29/08	1792.22	48.00	1744.22	
RD-98	07/30/08	1808.73	41.15	1767.58	
WS-04A	08/01/08	1749.77	154.76	1595.01	
WS-05	08/04/08	1830.20	233.10	1597.10	
WS-06	07/31/08	1932.72	336.33	1596.39	
WS-07	07/30/08	1826.19	56.67	1769.52	
WS-08	08/01/08	1794.39	142.81	1651.58	
WS-09	07/31/08	1883.99	284.34	1599.65	
WS-09A	07/29/08	1647.61	24.42	1623.19	
WS-09B	07/30/08	1796.89	129.97	1666.92	
WS-11	08/01/08	1748.70	43.91	1704.79	
WS-12	07/30/08	1705.98	110.69	1595.29	
WS-13	07/30/08	1658.62	63.52	1595.10	
WS-14	07/30/08	1878.23	320.83	1557.40	
WS-SP	08/04/08	1766.76	25.92	1740.84	

See page 8 of table for notes and abbreviations.

1. (A) = Artesian with hydrostatic head above land surface.

2. (C) = Depth to water measured from top of casing. During the monitoring period, pumps had been removed from several wells to allow hydrogeologic testing.

3. (ft btc) = Feet below top of casing.

4. MSL = Mean Sea Level.

5. UTM = Unable to measure.

6. --- = No data available/not applicable.

7. (*) = Unable to measure due to the following:
   - PZ-072 The plastic casing melted the cap to the casing during the 2005 Topanga fire, obstructing access to measure water levels.
   - HAR-12 The plastic casing melted the cap to the casing during the 2005 Topanga fire, obstructing access to measure water levels.
   - HAR-13 Inaccessible.
   - HAR-30 Obstruction in casing prevented water level measurement.
   - OS-24 The partially removed FLUTe system prevented water level measurement.
   - RD-31 A Westbay system was installed and a water level was not measured.
   - RD-40 Partial collapse prevented water level measurement.
   - RD-68B Open valve prevented pressure reading of artesian water level.

8. Static water level elevations were calculated using the following equation:
   $E_W = E - D + C$

   Where:
   E_W = Elevation of water above mean sea level (feet)
   E = Elevation above sea level at point of measurement (feet)
   D = Depth to water (feet)
   C = Calibration correction factor (feet)

9. (1) = FLUTe installed in well. Water level could not be measured. Water levels recorded by dataloggers at saturated ports were provided by MWH for the following wells:

Well	Date	Time	Port	Spacer Interval (ft btc)	Depth to Water (ft btc)
RD-07	07/30/08	No datalogger installed 3rd quarter 2008			
RD-21	07/30/08	13:02	1	85 - 95	Dry
	07/30/08	13:02	2	105 - 115	87.990
	07/30/08	13:02	3	125 - 135	88.610
	07/30/08	13:02	4	145 - 155	104.758
	07/30/08	13:02	5	165 - 175	87.180
RD-22	07/30/08	16:15	1	310 - 320	296.589
	07/30/08	16:15	2	330 - 340	296.578
	07/30/08	16:15	3	350 - 360	297.684
	07/30/08	16:15	4	370 - 380	299.975
	07/30/08	16:15	5	390 - 400	298.442
	07/30/08	16:15	6	410 - 420	---
	07/30/08	16:15	7	430 - 440	---

Well	Date	Time	Port	Spacer Interval (ft btc)	Depth to Water (ft btc)
RD-23	07/30/08	11:39	1	231 - 241	235.034
	07/30/08	11:39	2	251 - 261	224.136
	07/30/08	11:39	3	271 - 281	---
	07/30/08	11:39	4	291 - 301	Dry
	07/30/08	11:39	5	311 - 321	248.086
	07/30/08	11:39	6	331 - 341	244.278
	07/30/08	11:39	7	351 - 361	243.899
	07/30/08	11:39	8	371 - 381	---
	07/30/08	11:39	9	391 - 396.5	---
RD-33A	07/30/08	15:31	1	211 - 221	207.921
	07/30/08	15:31	2	231 - 241	208.473
	07/30/08	15:31	3	251 - 261	208.481
	07/30/08	15:31	4	271 - 281	208.702
	07/30/08	15:31	5	291 - 301	208.715
	07/30/08	15:31	6	311 - 321	206.681
RD-50	07/30/08	11:05	1	106 - 116	105.357
	07/30/08	11:05	2	126 - 136	105.959
	07/30/08	11:05	3	146 - 156	104.603
	07/30/08	11:05	4	166 - 176	105.256
	07/30/08	11:05	5	186 - 196	106.183
RD-54A	07/30/08	10:20	1	150.5 - 160.5	Dry
	07/30/08	10:20	2	170.5 - 180.5	148.131
	07/30/08	10:20	3	190.5 - 200.5	---
	07/30/08	10:20	4	210.5 - 220.5	152.018
	07/30/08	10:20	5	230.5 - 240.5	---
	07/30/08	10:20	6	250.5 - 260.5	---
	07/30/08	10:20	7	270.5 - 280.5	182.464
RD-57	07/30/08	11:23	1	228 - 238	Dry
	07/30/08	11:23	2	248 - 258	Dry
	07/30/08	11:23	3	268 - 278	Dry
	07/30/08	11:23	4	288 - 298	Dry
	07/30/08	11:23	5	308 - 318	Dry
	07/30/08	11:23	6	328 - 338	Dry
	07/30/08	11:23	7	348 - 358	339.100
	07/30/08	11:23	8	368 - 378	---
	07/30/08	11:23	9	388 - 398	349.767
	07/30/08	11:23	10	408 - 418	348.025
RD-64	07/30/08	16:01	1	170.5 - 180.5	---
	07/30/08	16:01	2	190.5 - 200.5	Dry
	07/30/08	16:01	3	210.5 - 220.5	---
	07/30/08	16:01	4	230.5 - 240.5	---
	07/30/08	16:01	5	250.5 - 260.5	238.757
	07/30/08	16:01	6	270.5 - 280.5	---
	07/30/08	16:01	7	290.5 - 300.5	---
	07/30/08	16:01	8	310.5 - 320.5	234.937
	07/30/08	16:01	9	330.5 - 340.5	---
	07/30/08	16:01	10	350.5 - 360.5	235.593
	07/30/08	16:01	11	370.5 - 380.5	236.080
	07/30/08	16:01	12	390.5 - 400.5	235.875

Well	Date	Time	Port	Spacer Interval (ft btc)	Depth to Water (ft btc)
RD-65	07/30/08	10:11	1	167 - 177	Dry
	07/30/08	10:11	2	187 - 197	Dry
	07/30/08	10:11	3	207 - 217	Dry
	07/30/08	10:11	4	227 - 237	223.615
	07/30/08	10:11	5	247 - 257	218.919
	07/30/08	10:11	6	267 - 277	---
	07/30/08	10:11	7	287 - 297	---
	07/30/08	10:11	8	307 - 317	233.063
	07/30/08	08:51	9	327 - 337	254.390
	07/30/08	08:51	10	347 - 357	---
	07/30/08	08:51	11	367 - 377	---
	07/30/08	08:51	12	387 - 397	---
RD-72	07/30/08	13:55	1	45 - 55	Dry
	07/30/08	13:55	2	65 - 75	Dry
	07/30/08	13:55	3	85 - 95	Dry
	07/30/08	13:55	4	105 - 115	95.603
	07/30/08	13:55	5	125 - 135	94.247
	07/30/08	13:55	6	145 - 155	119.155
	07/30/08	13:55	7	165 - 175	93.454
	07/30/08	13:55	8	185 - 195	92.731

TABLE III
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN SHALLOW WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	**ES-03**	**ES-06**	**ES-17**	**ES-21**	**ES-22**	**ES-23**
Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/05/2008	09/08/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.8 U	0.2 J	5 J	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane	0.5 U	0.1 U	3 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2 U	0.2 U	7400	2 U	2 U	2 U
1,1,2-Trichloroethane	0.8 U	0.1 U	4 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane	1 U	0.1 U	9 J	1 U	1 U	1 U
1,1-Dichloroethene	2 J	0.1 U	28	2 J	0.8 U	0.8 U
1,2-Dichlorobenzene	1 U	0.1 U	5 U	1 U	1 U	1 U
1,2-Dichloroethane	0.5 U	0.1 U	3 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1 U	0.1 U	5 U	1 U	1 U	1 U
1,3-Dichlorobenzene	1 U	0.1 U	5 U	1 U	1 U	1 U
1,4-Dichlorobenzene	1 U	0.1 U	5 U	1 U	1 U	1 U
1,4-Dioxane	---	---	---	1 J	---	---
2-Hexanone	3 U	1 U	15 U	3 U	3 U	3 U
Acetone	6 U	3 U	160	6 U	6 U	6 U
Benzene	0.5 U	0.1 U	3 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	1 U	0.1 U	5 U	1 U	1 U	1 U
Bromoform	1 U	0.1 U	5 U	1 U	1 U	1 U
Bromomethane	1 U	0.1 U	5 U	1 U	1 U	1 U
Carbon Disulfide	1 U	0.4 U	5 U	1 U	1 U	1 U
Carbon Tetrachloride	0.5 U	0.1 U	3 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	0.8 U	0.1 U	4 U	0.8 U	0.8 U	0.8 U
Chloroethane	1 U	0.1 U	5 U	1 U	1 U	1 U
Chloroform	0.8 U	0.1 U	4 U	0.8 U	0.8 U	0.8 U
Chloromethane	1 U	0.2 U	5 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	150 J	0.1 U	490 J	320 J	54 J	25
cis-1,3-Dichloropropene	1 U	0.1 U	5 U	1 U	1 U	1 U
Dibromochloromethane	1 U	0.1 U	5 U	1 U	1 U	1 U
Ethylbenzene	0.8 U	0.1 U	4 U	0.8 U	0.8 U	0.8 U
Methyl ethyl ketone	3 U	1 U	15 U	3 U	3 U	3 U
Methyl isobutyl ketone (MIBK)	3 U	1 U	15 U	3 U	3 U	3 U
Methylene chloride	2 U	0.2 U	10 U	2 U	2 U	2 U
m-Xylene & p-Xylene	0.8 U	0.1 U	4 U	0.8 U	0.8 U	0.8 U
o-Xylene	0.8 U	0.1 U	4 U	0.8 U	0.8 U	0.8 U
Tetrachloroethene	0.8 U	0.1 U	4 U	0.8 U	0.8 U	0.8 U
Toluene	0.7 U	0.1 U	4 U	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene	27	0.1 U	4 U	29	1 J	0.8 U
trans-1,3-Dichloropropene	1 U	0.1 U	5 U	1 U	1 U	1 U
Trichloroethene	370	1.8	3400	350	120	48
Trichlorofluoromethane	0.5 U	0.1 U	3 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	0.1 U	5 J	3	0.5 U	0.5 U

See last page of table for notes and abbreviations.

TABLE III
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN SHALLOW WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	**ES-26**	**ES-27**	**ES-27**	**ES-30**	**HAR-04**	**HAR-11**
Sample Type:	Primary	Primary	Duplicate	Primary	Primary	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	09/08/2008	09/05/2008	09/05/2008	09/03/2008	09/04/2008	09/04/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.8 U	0.8 U	0.8 U	0.8 U	6	0.1 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	150	140	110	2 U	2 U	0.2 U
1,1,2-Trichloroethane	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.1 U
1,1-Dichloroethane	1 U	1 U	1 U	1 U	1 U	0.1 U
1,1-Dichloroethene	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.1 U
1,2-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	0.1 U
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 U
1,2-Dichloropropane	1 U	1 U	1 U	1 U	1 U	0.1 U
1,3-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	0.1 U
1,4-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	0.1 U
1,4-Dioxane	---	---	---	---	---	0.9 J
2-Hexanone	3 U	3 U	3 U	3 U	3 U	1 U
Acetone	6 U	7 J	7 J	6 U	6 U	6.2
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 U
Bromodichloromethane	1 U	1 U	1 U	1 U	1 U	0.1 U
Bromoform	1 U	1 U	1 U	1 U	1 U	0.1 U
Bromomethane	1 U	1 U	1 U	1 U	1 U	0.1 U
Carbon Disulfide	1 U	1 U	1 U	1 U	1 U	0.4 U
Carbon Tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 U
Chlorobenzene	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.1 U
Chloroethane	1 U	1 U	1 U	1 U	1 U	0.2 J
Chloroform	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.1 U
Chloromethane	1 U	1 U	1 U	1 U	1 U	0.2 U
cis-1,2-Dichloroethene	1 J	1 J	2 J	1 J	12 J	2.1
cis-1,3-Dichloropropene	1 U	1 U	1 U	1 U	1 U	0.1 U
Dibromochloromethane	1 U	1 U	1 U	1 U	1 U	0.1 U
Ethylbenzene	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.3 J
Methyl ethyl ketone	3 U	3 U	3 U	3 U	3 U	1.2 R
Methyl isobutyl ketone (MIBK)	3 U	3 U	3 U	3 U	3 U	1 U
Methylene chloride	2 U	2 U	2 U	2 U	2 U	0.2 U
m-Xylene & p-Xylene	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8
o-Xylene	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.6
Tetrachloroethene	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.1 U
Toluene	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.1 U
trans-1,2-Dichloroethene	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.2 J
trans-1,3-Dichloropropene	1 U	1 U	1 U	1 U	1 U	0.1 U
Trichloroethene	46	62	72	36	590	0.1 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 U
Vinyl chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J

See last page of table for notes and abbreviations.

TABLE III
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN SHALLOW WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	**HAR-14**	**HAR-15**	**HAR-27**	**RS-54**
Sample Type:	Primary	Primary	Primary	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	08/21/2008	08/21/2008	09/09/2008	09/04/2008
Analyte (ug/L)				
1,1,1-Trichloroethane	0.9	0.1 U	0.1 U	4200
1,1,2,2-Tetrachloroethane	0.1 U	0.1 U	0.1 U	3 U
1,1,2-Trichloro-1,2,2-trifluoroethane	16	0.2 U	0.2 U	190
1,1,2-Trichloroethane	0.1 U	0.1 U	0.1 U	4 J
1,1-Dichloroethane	0.2 J	0.1 U	0.1 U	1300
1,1-Dichloroethene	11	0.1 U	0.1 U	1600
1,2-Dichlorobenzene	0.1 U	0.1 U	0.1 U	5 U
1,2-Dichloroethane	0.1 J	0.1 U	0.1 U	14
1,2-Dichloropropane	0.1 U	0.1 U	0.1 U	5 U
1,3-Dichlorobenzene	0.1 U	0.1 U	0.1 U	5 U
1,4-Dichlorobenzene	0.1 U	0.1 U	0.1 U	5 U
1,4-Dioxane	77	0.5 U	---	---
2-Hexanone	1 U	1 U	1 U	15 U
Acetone	3 U	3 U	3.6 J	30 U
Benzene	0.1 U	0.1 U	0.1 U	8
Bromodichloromethane	0.1 U	0.1 U	0.1 U	5 U
Bromoform	0.1 U	0.1 U	0.1 U	5 U
Bromomethane	0.1 U	0.1 U	0.1 U	5 U
Carbon Disulfide	0.4 U	0.4 U	0.4 U	5 U
Carbon Tetrachloride	2.1	0.1 U	0.1 U	3 U
Chlorobenzene	0.1 U	0.1 U	0.1 U	4 U
Chloroethane	0.1 U	0.1 U	0.1 U	5 U
Chloroform	2.2	0.1 U	0.1 U	9 J
Chloromethane	0.2 U	0.2 U	0.2 U	5 U
cis-1,2-Dichloroethene	0.1 U	0.5 J	14	38
cis-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	5 U
Dibromochloromethane	0.1 U	0.1 U	0.1 U	5 U
Ethylbenzene	0.1 U	0.1 U	0.1 U	4 U
Methyl ethyl ketone	1 U	1 U	1 U	15 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	15 U
Methylene chloride	0.2 U	0.2 U	0.2 U	10 U
m-Xylene & p-Xylene	0.1 U	0.1 U	0.1 U	4 U
o-Xylene	0.1 U	0.1 U	0.1 U	4 U
Tetrachloroethene	0.1 U	0.1 U	0.1 U	8 J
Toluene	0.1 U	0.1 U	0.1 U	4 U
trans-1,2-Dichloroethene	0.1 U	0.1 U	6.9	4 U
trans-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	5 U
Trichloroethene	4.4	1.9	0.1 J	1700
Trichlorofluoromethane	0.1 U	0.1 U	0.1 U	4 J
Vinyl chloride	0.1 U	0.1 U	3.9	3 U

See last page of table for notes and abbreviations.

TABLE III
NOTES AND ABBREVIATIONS

1. Lancaster = Lancaster Laboratories of Lancaster, Pennsylvania.
2. --- = Analysis not performed.
3. ug/L = Micrograms per liter.
4. J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL), or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
5. R = Rejected result (see Appendix A for details).
6. U = Not detected.
7. Analyses were performed using EPA method 8260B for all volatile organic compounds except 1,4-dioxane which was analyzed by EPA method 8620SIM.

TABLE IV

SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	HAR-07	HAR-08	HAR-18	HAR-20	HAR-22	HAR-23
Sample Port:	---	---	---	---	---	---
Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	08/27/2008	08/27/2008	08/28/2008	08/20/2008	08/25/2008	08/28/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	4 U	0.1 U	1.1 J	0.1 U	0.1 U	0.1 U
1,1,2,2-Tetrachloroethane	3 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10 U	0.2 U	550	0.4 J	0.2 U	0.2 U
1,1,2-Trichloroethane	4 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	5 U	0.1 U	3.9 J	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	7 J	0.1 U	60	0.7	0.1 U	0.1 U
1,2-Dichlorobenzene	5 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloroethane	3 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloropropane	5 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
1,3-Dichlorobenzene	5 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
1,4-Dichlorobenzene	5 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
1,4-Dioxane	1 U	1 J	8.4	2.9	---	---
2-Hexanone	15 U	1 U	10 U	1 U	1 U	1 U
Acetone	30 U	3 J	30 U	3 U	3 U	3.2 J,L
Benzene	3 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Bromodichloromethane	5 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Bromoform	5 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Bromomethane	5 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Carbon Disulfide	5 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U
Carbon Tetrachloride	3 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Chlorobenzene	4 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Chloroethane	5 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Chloroform	4 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Chloromethane	5 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	2300	13	910	130	5.5	0.3 J
cis-1,3-Dichloropropene	5 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Dibromochloromethane	5 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Ethylbenzene	4 U	0.4 J	1 U	0.1 U	0.1 U	0.1 U
Methyl ethyl ketone	15 U	1 U	10 U	1 U	1 U	1 U
Methyl isobutyl ketone (MIBK)	15 U	1 U	10 U	1 U	1 U	1 U
Methylene chloride	10 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U
m-Xylene & p-Xylene	4 U	1.5	1 U	0.1 U	0.1 U	0.1 U
o-Xylene	4 U	1.2	1 U	0.1 U	0.1 U	0.1 U
Tetrachloroethene	4 U	0.1 U	2.2 J	0.1 U	0.1 U	0.1 U
Toluene	4 U	0.5	1 U	0.1 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	110	1.2	15	12	0.3 J	0.1 U
trans-1,3-Dichloropropene	5 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Trichloroethene	4100	1	1400	310	1.3	2
Trichlorofluoromethane	3 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Vinyl chloride	53	2.6	72	1.2	0.1 J	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	HAR-24	HAR-26	OS-09	OS-16	OS-17	OS-17
Sample Port:	---	---	---	---	---	---
Sample Type:	Primary	Primary	Primary	Primary	Primary	Duplicate
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	08/11/2008	08/20/2008	08/14/2008	09/08/2008	08/12/2008	08/12/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.8 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2,2-Tetrachloroethane	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	8 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	0.8 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	0.8 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichlorobenzene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloroethane	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloropropane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,3-Dichlorobenzene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dichlorobenzene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dioxane	---	---	---	---	---	---
2-Hexanone	3 U	1 U	1 U	1 U	1 U	1 U
Acetone	6 U	3 U	3 U	3 U	3 U	3 U
Benzene	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromodichloromethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromoform	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromomethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Carbon Disulfide	1 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Carbon Tetrachloride	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chlorobenzene	0.8 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	2 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloromethane	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	3 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
cis-1,3-Dichloropropene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibromochloromethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Ethylbenzene	0.8 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methyl ethyl ketone	3 U	1 U	1 U	1 U	1 U	1 U
Methyl isobutyl ketone (MIBK)	3 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m-Xylene & p-Xylene	0.8 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
o-Xylene	0.8 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Tetrachloroethene	0.8 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Toluene	0.7 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	0.8 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
trans-1,3-Dichloropropene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichloroethene	140	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl chloride	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	OS-17	OS-25	OS-26	RD-01	RD-03	RD-04
Sample Port:	---	---	---	---	---	---
Sample Type:	Split	Primary	Primary	Primary	Primary	Primary
Lab Name:	TA-Denver	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	08/12/2008	09/09/2008	09/09/2008	08/28/2008	08/15/2008	08/20/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.16 U	0.1 U	0.1 U	0.8 U	0.1 U	1 U
1,1,2,2-Tetrachloroethane	0.2 U	0.1 U	0.1 U	0.5 U	0.1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.79 U	0.2 U	0.2 U	2 U	0.2 U	2 U
1,1,2-Trichloroethane	0.32 U	0.1 U	0.1 U	0.8 U	0.1 U	1 U
1,1-Dichloroethane	0.16 U	0.1 U	0.1 U	1 U	0.1 U	1 U
1,1-Dichloroethene	0.14 U	0.1 U	0.1 U	3 J	0.1 U	1.9 J
1,2-Dichlorobenzene	0.13 U	0.1 U	0.1 U	1 U	0.1 U	1 U
1,2-Dichloroethane	0.13 U	0.1 U	0.1 U	0.5 U	0.1 U	1 U
1,2-Dichloropropane	0.13 U	0.1 U	0.1 U	1 U	0.1 U	1 U
1,3-Dichlorobenzene	0.16 U	0.1 U	0.1 U	1 U	0.1 U	1 U
1,4-Dichlorobenzene	0.16 U	0.1 U	0.1 U	1 U	0.1 U	1 U
1,4-Dioxane	---	---	---	1.7 J	---	0.7 J
2-Hexanone	1.4 U	1 U	1 U	3 U	1 U	10 U
Acetone	1.9 U	3 U	3 U	6 U	3 U	30 U
Benzene	0.16 U	0.1 U	0.1 U	0.5 U	0.1 U	1 U
Bromodichloromethane	0.17 U	0.1 U	0.1 U	1 U	0.1 U	1 U
Bromoform	0.19 U	0.1 U	0.1 U	1 U	0.1 U	1 U
Bromomethane	0.21 U	0.1 U	0.1 U	1 U	0.1 U	1 U
Carbon Disulfide	0.45 U	0.4 U	0.4 U	1 U	0.4 U	4 U
Carbon Tetrachloride	0.19 U	0.1 U	0.1 U	0.5 U	0.1 U	1 U
Chlorobenzene	0.17 U	0.1 U	0.1 U	0.8 U	0.1 U	1 U
Chloroethane	0.41 U	0.1 U	0.1 U	1 U	0.1 U	1 U
Chloroform	0.16 U	0.1 U	0.1 U	0.8 U	0.1 U	1 U
Chloromethane	0.3 U	0.2 U	0.2 U	1 U	0.2 U	2 U
cis-1,2-Dichloroethene	0.15 U	0.1 U	0.1 U	670	0.7	180
cis-1,3-Dichloropropene	0.16 U	0.1 U	0.1 U	1 U	0.1 U	1 U
Dibromochloromethane	0.17 U	0.1 U	0.1 U	1 U	0.1 U	1 U
Ethylbenzene	0.16 U	0.1 U	0.1 U	0.8 U	0.1 U	1 U
Methyl ethyl ketone	1.8 U	1 U	1 U	3 U	1 U	10 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	3 U	1 U	10 U
Methylene chloride	0.32 U	0.2 U	0.2 U	2 U	0.2 U	2 U
m-Xylene & p-Xylene	0.34 U	0.1 U	0.1 U	0.8 U	0.1 U	1 U
o-Xylene	0.19 U	0.1 U	0.1 U	0.8 U	0.1 U	1 U
Tetrachloroethene	0.2 U	0.1 U	0.1 U	0.8 U	0.1 U	1 U
Toluene	0.17 U	0.1 U	0.1 U	0.7 U	0.1 U	1 U
trans-1,2-Dichloroethene	0.15 U	0.1 U	0.1 U	30	0.2 J	6.2
trans-1,3-Dichloropropene	0.19 U	0.1 U	0.1 U	1 U	0.1 U	1 U
Trichloroethene	0.16 U	0.1 U	0.1 U	640	0.1 U	2300
Trichlorofluoromethane	0.29 U	0.1 U	0.1 U	0.5 U	0.1 U	1 U
Vinyl chloride	0.4 U	0.1 U	0.1 U	30	0.1 J	1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-05A	RD-05B	RD-05B	RD-05B	RD-05C	RD-05C
Sample Port:	---	---	---	---	---	---
Sample Type:	Primary	Primary	Duplicate	Split	Primary	Duplicate
Lab Name:	Lancaster	Lancaster	Lancaster	TA-Denver	Lancaster	Lancaster
Collection Date:	08/14/2008	08/18/2008	08/18/2008	08/18/2008	08/14/2008	08/14/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.1 U
1,1,2,2-Tetrachloroethane	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	0.2 U	0.79 U	0.2 U	0.2 U
1,1,2-Trichloroethane	0.1 U	0.1 U	0.1 U	0.32 U	0.1 U	0.1 U
1,1-Dichloroethane	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.1 U
1,1-Dichloroethene	0.1 U	0.1 U	0.1 U	0.14 U	0.1 U	0.1 U
1,2-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.13 U	0.1 U	0.1 U
1,2-Dichloroethane	0.1 U	0.1 U	0.1 U	0.13 U	0.1 U	0.1 U
1,2-Dichloropropane	0.1 U	0.1 U	0.1 U	0.13 U	0.1 U	0.1 U
1,3-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.1 U
1,4-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.1 U
1,4-Dioxane	---	---	---	---	---	---
2-Hexanone	1 U	1 U	1 U	1.4 U	1 U	1 U
Acetone	3 U	3 U	3 U	4.1 U	3 U	3 U
Benzene	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.1 U
Bromodichloromethane	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U	0.1 U
Bromoform	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U	0.1 U
Bromomethane	0.1 U	0.1 U	0.1 U	0.21 U	0.1 U	0.1 U
Carbon Disulfide	0.4 U	0.4 U	0.4 U	0.45 U	0.4 J	0.4 U
Carbon Tetrachloride	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U	0.1 U
Chlorobenzene	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U	0.1 U
Chloroethane	0.1 U	0.1 U	0.1 U	0.41 U	0.1 U	0.1 U
Chloroform	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.1 U
Chloromethane	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.1 U	0.1 U	0.1 U	0.15 U	0.1 U	0.1 U
cis-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.1 U
Dibromochloromethane	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U	0.1 U
Ethylbenzene	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.1 U
Methyl ethyl ketone	1 U	1 U	1 U	1.8 U	1 U	1 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	0.2 U	0.2 U	0.2 U	0.32 U	0.2 U	0.2 U
m-Xylene & p-Xylene	0.1 U	0.1 U	0.1 U	0.34 U	0.1 U	0.1 U
o-Xylene	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U	0.1 U
Tetrachloroethene	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U
Toluene	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	0.1 U	0.1 U	0.1 U	0.15 U	0.1 U	0.1 U
trans-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U	0.1 U
Trichloroethene	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.1 U
Trichlorofluoromethane	0.1 U	0.1 U	0.1 U	0.29 U	0.1 U	0.1 U
Vinyl chloride	0.1 U	0.1 U	0.1 U	0.4 U	0.1 U	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-06	RD-06	RD-06	RD-07	RD-09	RD-10
Sample Port:	---	---	---	Z3	---	---
Sample Type:	Primary	Duplicate	Split	Primary	Primary	Primary
Lab Name:	Lancaster	Lancaster	TA-Denver	Lancaster	Lancaster	Lancaster
Collection Date:	08/28/2008	08/28/2008	08/28/2008	08/06/2008	08/20/2008	08/26/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.1 U	0.16 U	0.1 U	0.5 U	0.1 U
1,1,2,2-Tetrachloroethane	0.1 U	0.1 U	0.2 U	0.1 U	0.5 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	0.79 U	0.2 U	1 U	0.2 U
1,1,2-Trichloroethane	0.1 U	0.1 U	0.32 U	0.1 U	0.5 U	0.1 U
1,1-Dichloroethane	0.1 U	0.1 U	0.16 U	0.1 U	0.5 U	0.1 U
1,1-Dichloroethene	0.1 U	0.1 U	0.14 U	0.1 J	0.6 J	0.1 J
1,2-Dichlorobenzene	0.1 U	0.1 U	0.13 U	0.1 U	0.5 U	0.1 U
1,2-Dichloroethane	0.1 U	0.1 U	0.13 U	0.1 U	0.5 U	0.1 U
1,2-Dichloropropane	0.1 U	0.1 U	0.13 U	0.1 U	0.5 U	0.1 U
1,3-Dichlorobenzene	0.1 U	0.1 U	0.16 U	0.1 U	0.5 U	0.1 U
1,4-Dichlorobenzene	0.1 U	0.1 U	0.16 U	0.1 U	0.5 U	0.1 U
1,4-Dioxane	---	---	---	---	2.5 U	0.6 J
2-Hexanone	1 U	1 U	1.4 U	1 U	5 U	1 U
Acetone	3 U	3 U	1.9 U	3 U	15 U	3 U
Benzene	0.1 U	0.1 U	0.16 U	0.1 U	0.5 U	0.1 U
Bromodichloromethane	0.1 U	0.1 U	0.17 U	0.1 U	0.5 U	0.1 U
Bromoform	0.1 U	0.1 U	0.19 U	0.1 U	0.5 U	0.1 U
Bromomethane	0.1 U	0.1 U	0.21 U	0.1 U	0.5 U	0.1 U
Carbon Disulfide	0.4 U	0.4 U	0.45 U	0.4 U	2 U	0.4 U
Carbon Tetrachloride	0.1 U	0.1 U	0.19 U	0.1 U	0.5 U	0.1 J
Chlorobenzene	0.1 U	0.1 U	0.17 U	0.1 J,S	0.5 U	0.1 U
Chloroethane	0.1 U	0.1 U	0.41 U	0.1 U	0.5 U	0.1 U
Chloroform	0.1 U	0.1 U	0.16 U	0.1 U	0.5 U	0.1 U
Chloromethane	0.2 U	0.2 U	0.3 U	0.2 U	1 U	0.2 U
cis-1,2-Dichloroethene	0.1 U	0.1 U	0.15 U	41	69	11
cis-1,3-Dichloropropene	0.1 U	0.1 U	0.16 U	0.1 U	0.5 U	0.1 U
Dibromochloromethane	0.1 U	0.1 U	0.17 U	0.1 U	0.5 U	0.1 U
Ethylbenzene	0.1 U	0.1 U	0.16 U	0.1 U	0.5 U	0.1 U
Methyl ethyl ketone	1 U	1 U	1.8 U	1 U	5 U	1 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	1 U	5 U	1 U
Methylene chloride	0.2 U	0.2 U	0.36 U	0.2 U	1 U	0.2 U
m-Xylene & p-Xylene	0.1 U	0.1 U	0.34 U	0.1 U	0.5 U	0.1 U
o-Xylene	0.1 U	0.1 U	0.19 U	0.1 U	0.5 U	0.1 U
Tetrachloroethene	0.1 U	0.1 U	0.2 U	0.1 U	0.5 U	0.1 U
Toluene	0.1 U	0.1 U	0.17 U	0.1 U	0.5 U	0.1 U
trans-1,2-Dichloroethene	0.1 U	0.1 U	0.15 U	0.2 J	15	0.8
trans-1,3-Dichloropropene	0.1 U	0.1 U	0.19 U	0.1 U	0.5 U	0.1 U
Trichloroethene	0.1 U	0.1 U	0.16 U	17	360	15
Trichlorofluoromethane	0.1 U	0.1 U	0.29 U	0.1 U	0.5 U	0.1 U
Vinyl chloride	0.1 U	0.1 U	0.4 U	0.1 U	0.5 J	0.1 J

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-13	RD-16	RD-18	RD-19	RD-21	RD-22
Sample Port:	---	---	---	---	Z3	Z2
Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	09/03/2008	08/25/2008	08/21/2008	08/11/2008	08/06/2008	08/06/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U	0.1 U
1,1,2,2-Tetrachloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	0.2 U	0.2 U	2 U	0.2 U
1,1,2-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U	0.1 U
1,1-Dichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
1,1-Dichloroethene	0.1 U	0.1 U	0.1 U	0.1 U	2 J	0.1 U
1,2-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
1,2-Dichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1 U
1,2-Dichloropropane	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
1,3-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
1,4-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
1,4-Dioxane	---	---	---	---	---	---
2-Hexanone	1 U	1 U	1 U	1 U	3 U	1 U
Acetone	3 U	3 U	3 U	3 U	95	3 U
Benzene	0.1 U	0.1 U	0.1 U	0.1 U	0.6 J,F	0.1 U
Bromodichloromethane	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
Bromoform	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
Bromomethane	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
Carbon Disulfide	0.4 U	0.4 U	0.4 U	0.4 U	1 U	0.4 U
Carbon Tetrachloride	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1 U
Chlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U	1 S
Chloroethane	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
Chloroform	0.1 U	0.1 U	0.1 U	0.1 U	1 J	0.1 U
Chloromethane	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U
cis-1,2-Dichloroethene	0.1 U	0.1 U	0.1 U	0.1 U	740	0.1 U
cis-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
Dibromochloromethane	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
Ethylbenzene	0.1 U	0.1 U	0.1 U	0.1 U	2 J,S	0.1 U
Methyl ethyl ketone	1 U	1 U	1 U	1 U	11	1 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	1 U	3 U	1 U
Methylene chloride	0.2 U	0.2 U	0.2 U	0.2 U	2 U	0.2 U
m-Xylene & p-Xylene	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U	0.1 U
o-Xylene	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U	0.1 U
Tetrachloroethene	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U	0.1 U
Toluene	0.1 U	0.1 U	0.1 U	0.1 U	12 F	0.1 U
trans-1,2-Dichloroethene	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U	0.1 U
trans-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U
Trichloroethene	0.4 J	0.1 U	0.1 U	0.1 U	69	0.1 U
Trichlorofluoromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1 U
Vinyl chloride	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-23	RD-26	RD-27	RD-30	RD-32	RD-33A
Sample Port:	Z2	---	---	---	---	Z2
Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	08/07/2008	09/02/2008	09/04/2008	08/13/2008	08/13/2008	08/08/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.8 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2,2-Tetrachloroethane	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2 U	0.2 U	0.2 U	2.3	0.2 U	0.2 U
1,1,2-Trichloroethane	0.8 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	1 J	0.1 U	0.1 U	0.1 J	0.1 U	0.3 J
1,1-Dichloroethene	5	0.1 U	0.1 U	0.2 J	0.1 U	1.1
1,2-Dichlorobenzene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloroethane	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloropropane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,3-Dichlorobenzene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dichlorobenzene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dioxane	---	---	---	---	---	---
2-Hexanone	3 U	1 U	1 U	1 U	1 U	1 U
Acetone	6 U	3 U	3 U	3 U	8.1	3 U
Benzene	0.5 U	0.1 U	0.1 U	0.1 U	0.6	0.4 J,F
Bromodichloromethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromoform	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromomethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Carbon Disulfide	1 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Carbon Tetrachloride	0.5 U	0.2 J	0.1 U	0.1 U	0.1 U	0.1 U
Chlorobenzene	0.8 R	0.1 U	0.1 U	0.1 U	0.1 U	0.6 S
Chloroethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	0.8 U	0.2 J	0.1 U	0.1 U	0.1 U	0.1 U
Chloromethane	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	30	0.1 U	0.1 U	0.6	0.1 U	4.6
cis-1,3-Dichloropropene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibromochloromethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Ethylbenzene	0.8 U	0.1 U	0.1 U	0.1 U	3.8	0.1 U
Methyl ethyl ketone	3 U	1 U	1 U	1 U	1.5 J	1 U
Methyl isobutyl ketone (MIBK)	3 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m-Xylene & p-Xylene	0.8 U	0.1 U	0.1 U	0.1 U	9.7	0.1 U
o-Xylene	0.8 U	0.1 U	0.1 U	0.1 U	10	0.1 U
Tetrachloroethene	0.8 U	0.1 U	0.1 U	0.6	0.5	0.1 U
Toluene	0.7 U	0.1 U	0.1 U	0.1 U	17	0.9 F
trans-1,2-Dichloroethene	4 J	0.1 U	0.1 U	0.1 U	0.1 U	0.7
trans-1,3-Dichloropropene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichloroethene	410	2.8	0.1 U	11	0.1 U	0.1 J
Trichlorofluoromethane	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl chloride	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-33B	RD-33C	RD-34A	RD-34B	RD-34C	RD-36B
Sample Port:	---	---	---	---	---	---
Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	08/07/2008	08/07/2008	08/07/2008	08/07/2008	08/07/2008	08/14/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U
1,1,2,2-Tetrachloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2 U
1,1,2-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U
1,1-Dichloroethane	0.1 U	0.1 U	0.3 J	0.2 J	0.1 U	1 U
1,1-Dichloroethene	0.1 U	0.1 U	0.7	0.3 J	0.1 U	0.8 U
1,2-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
1,2-Dichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
1,2-Dichloropropane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
1,3-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
1,4-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
1,4-Dioxane	---	---	---	---	---	---
2-Hexanone	1 U	1 U	1 U	1 U	1 U	3 U
Acetone	3.1 J	3 U	3 U	3 U	3 U	6 U
Benzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
Bromodichloromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
Bromoform	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
Bromomethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
Carbon Disulfide	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	1 U
Carbon Tetrachloride	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
Chlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U
Chloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
Chloroform	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U
Chloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U
cis-1,2-Dichloroethene	0.1 U	0.1 U	1.2	0.8	0.1 U	1 J
cis-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
Dibromochloromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
Ethylbenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U
Methyl ethyl ketone	1 U	1 U	1 U	1 U	1 U	3 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	1 U	1 U	3 U
Methylene chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2 U
m-Xylene & p-Xylene	0.1 J	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U
o-Xylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U
Tetrachloroethene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	6
Toluene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.7 U
trans-1,2-Dichloroethene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.8 U
trans-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
Trichloroethene	0.1 U	0.1 U	5.3	1.3	0.1 U	99
Trichlorofluoromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
Vinyl chloride	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-36B	RD-36C	RD-36D	RD-36D	RD-36D	RD-37
Sample Port:	---	---	---	---	---	---
Sample Type:	Duplicate	Primary	Primary	Duplicate	Split	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	TA-Denver	Lancaster
Collection Date:	08/14/2008	08/15/2008	08/15/2008	08/15/2008	08/15/2008	09/09/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.8 U	0.8 U	0.1 U	0.1 U	0.16 U	0.1 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.1 U	0.1 U	0.2 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2 U	2 U	0.2 U	0.2 U	0.79 U	0.2 U
1,1,2-Trichloroethane	0.8 U	0.8 U	0.1 U	0.1 U	0.32 U	0.1 U
1,1-Dichloroethane	1 U	1 U	0.1 U	0.1 U	0.16 U	0.1 U
1,1-Dichloroethene	0.8 U	5 J	0.2 J	0.1 U	0.14 U	0.1 U
1,2-Dichlorobenzene	1 U	1 U	0.1 U	0.1 U	0.13 U	0.1 U
1,2-Dichloroethane	0.5 U	0.5 U	0.1 U	0.1 U	0.13 U	0.1 U
1,2-Dichloropropane	1 U	1 U	0.1 U	0.1 U	0.13 U	0.1 U
1,3-Dichlorobenzene	1 U	1 U	0.1 U	0.1 U	0.16 U	0.1 U
1,4-Dichlorobenzene	1 U	1 U	0.1 U	0.1 U	0.16 U	0.1 U
1,4-Dioxane	---	---	---	---	---	---
2-Hexanone	3 U	3 U	1 U	1 U	1.4 U	1 U
Acetone	6 U	6 U	3 U	3 U	1.9 U	3 U
Benzene	0.5 U	0.5 U	0.1 U	0.1 U	0.16 U	0.1 U
Bromodichloromethane	1 U	1 U	0.1 U	0.1 U	0.17 U	0.1 U
Bromoform	1 U	1 U	0.1 U	0.1 U	0.19 U	0.1 U
Bromomethane	1 U	1 U	0.1 U	0.1 U	0.21 U	0.1 U
Carbon Disulfide	1 U	1 U	0.4 U	0.4 U	0.45 U	0.4 U
Carbon Tetrachloride	0.5 U	0.5 U	0.1 U	0.1 U	0.19 U	0.1 U
Chlorobenzene	0.8 U	0.8 U	0.1 U	0.1 U	0.17 U	0.1 U
Chloroethane	1 U	1 U	0.1 U	0.1 U	0.41 U	0.1 U
Chloroform	0.8 U	0.8 U	0.1 U	0.1 U	0.16 U	0.1 U
Chloromethane	1 U	1 U	0.2 U	0.2 U	0.3 U	0.2 U
cis-1,2-Dichloroethene	1 J	67	2	0.1 U	0.15 U	0.1 U
cis-1,3-Dichloropropene	1 U	1 U	0.1 U	0.1 U	0.16 U	0.1 U
Dibromochloromethane	1 U	1 U	0.1 U	0.1 U	0.17 U	0.1 U
Ethylbenzene	0.8 U	0.8 U	0.1 U	0.1 U	0.16 U	0.1 U
Methyl ethyl ketone	3 U	3 U	1 U	1 U	1.8 U	1 U
Methyl isobutyl ketone (MIBK)	3 U	3 U	1 U	1 U	1 U	1 U
Methylene chloride	2 U	2 U	0.2 U	0.2 U	0.32 U	0.2 U
m-Xylene & p-Xylene	0.8 U	0.8 U	0.1 U	0.1 U	0.34 U	0.1 U
o-Xylene	0.8 U	0.8 U	0.1 U	0.1 U	0.19 U	0.1 U
Tetrachloroethene	6	5	0.2 J	0.1 U	0.2 U	0.1 U
Toluene	0.7 U	0.7 U	0.1 U	0.1 U	0.17 U	0.1 U
trans-1,2-Dichloroethene	0.8 U	3 J	0.3 J	0.1 U	0.15 U	0.1 U
trans-1,3-Dichloropropene	1 U	1 U	0.1 U	0.1 U	0.19 U	0.1 U
Trichloroethene	97	91	3.9	0.4 J	0.35 J	0.1 J
Trichlorofluoromethane	0.5 U	0.5 U	0.1 U	0.1 U	0.29 U	0.1 U
Vinyl chloride	0.5 U	0.5 U	0.1 U	0.1 U	0.4 U	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-37	RD-37	RD-38B	RD-39B	RD-41A	RD-41B
Sample Port:	---	---	---	---	---	---
Sample Type:	Duplicate	Split	Primary	Primary	Primary	Primary
Lab Name:	Lancaster	TA-Denver	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	09/09/2008	09/09/2008	09/05/2008	09/05/2008	08/28/2008	08/28/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	2 U
1,1,2,2-Tetrachloroethane	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.79 U	0.2 U	0.2 U	0.2 U	4 U
1,1,2-Trichloroethane	0.1 U	0.32 U	0.1 U	0.1 U	0.1 U	2 U
1,1-Dichloroethane	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	2 U
1,1-Dichloroethene	0.1 U	0.14 U	0.1 U	0.1 U	0.1 U	3 J
1,2-Dichlorobenzene	0.1 U	0.13 U	0.1 U	0.1 U	0.1 U	2 U
1,2-Dichloroethane	0.1 U	0.13 U	0.1 U	0.1 U	0.1 U	2 U
1,2-Dichloropropane	0.1 U	0.13 U	0.1 U	0.1 U	0.1 U	2 U
1,3-Dichlorobenzene	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	2 U
1,4-Dichlorobenzene	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	2 U
1,4-Dioxane	---	---	---	---	0.5 U	1.1 J
2-Hexanone	1 U	1.4 U	1 U	1 U	1 U	20 U
Acetone	3 U	2.4 J	3 U	3 U	3 U	60 U
Benzene	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	2 U
Bromodichloromethane	0.1 U	0.17 U	0.1 U	0.1 U	0.1 U	2 U
Bromoform	0.1 U	0.19 U	0.1 U	0.1 U	0.1 U	2 U
Bromomethane	0.1 U	0.21 U	0.1 U	0.1 U	0.1 U	2 U
Carbon Disulfide	0.4 U	0.45 U	0.4 U	0.4 U	0.4 U	8 U
Carbon Tetrachloride	0.1 U	0.19 U	0.1 U	0.1 U	0.1 U	2 U
Chlorobenzene	0.1 U	0.17 U	0.1 U	0.1 U	0.1 U	2 U
Chloroethane	0.1 U	0.41 U	0.1 U	0.1 U	0.1 U	2 U
Chloroform	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	2 U
Chloromethane	0.2 U	0.3 U	0.2 U	0.2 U	0.2 U	4 U
cis-1,2-Dichloroethene	0.1 U	0.15 U	0.1 U	0.1 U	7.3	680
cis-1,3-Dichloropropene	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	2 U
Dibromochloromethane	0.1 U	0.17 U	0.1 U	0.1 U	0.1 U	2 U
Ethylbenzene	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	2 U
Methyl ethyl ketone	1 U	1.8 U	1 U	1 U	1 U	20 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	1 U	1 U	20 U
Methylene chloride	0.2 U	0.32 U	0.2 U	0.2 U	0.2 U	4 U
m-Xylene & p-Xylene	0.1 U	0.34 U	0.1 U	0.1 U	0.1 U	2 U
o-Xylene	0.1 U	0.19 U	0.1 U	0.1 U	0.1 U	2 U
Tetrachloroethene	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	2 U
Toluene	0.1 U	0.17 U	0.1 U	0.1 U	0.1 U	2 U
trans-1,2-Dichloroethene	0.1 U	0.15 U	0.1 U	0.1 U	2.6	37
trans-1,3-Dichloropropene	0.1 U	0.19 U	0.1 U	0.1 U	0.1 U	2 U
Trichloroethene	0.1 J	0.16 U	0.1 U	0.1 U	3.4	1300
Trichlorofluoromethane	0.1 U	0.29 U	0.1 U	0.1 U	0.1 U	2 U
Vinyl chloride	0.1 U	0.4 U	0.1 U	0.1 U	1.4	18

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-43A	RD-43B	RD-43B	RD-43B	RD-43C	RD-45B
Sample Port:	---	---	---	---	---	---
Sample Type:	Primary	Primary	Duplicate	Split	Primary	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	TA-Denver	Lancaster	Lancaster
Collection Date:	08/13/2008	08/13/2008	08/13/2008	08/13/2008	09/08/2008	08/12/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.8 U
1,1,2,2-Tetrachloroethane	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	0.2 U	0.79 U	0.2 U	2 U
1,1,2-Trichloroethane	0.1 U	0.1 U	0.1 U	0.32 U	0.1 U	0.8 U
1,1-Dichloroethane	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	1 U
1,1-Dichloroethene	0.1 U	0.1 U	0.1 U	0.14 U	0.1 U	0.8 U
1,2-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.13 U	0.1 U	1 U
1,2-Dichloroethane	0.1 U	0.1 U	0.1 U	0.13 U	0.1 U	0.5 U
1,2-Dichloropropane	0.1 U	0.1 U	0.1 U	0.13 U	0.1 U	1 U
1,3-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	1 U
1,4-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	1 U
1,4-Dioxane	---	---	---	---	---	---
2-Hexanone	1 U	1 U	1 U	1.4 U	1 U	3 U
Acetone	3 U	3 U	3 U	1.9 U	3 U	6 U
Benzene	0.1 U	0.1 U	0.1 U	0.16 U	0.2 J	0.5 U
Bromodichloromethane	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U	1 U
Bromoform	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U	1 U
Bromomethane	0.1 U	0.1 U	0.1 U	0.21 U	0.1 U	1 U
Carbon Disulfide	0.4 U	0.6 U	0.4 U	0.45 U	0.4 U	1 U
Carbon Tetrachloride	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U	0.5 U
Chlorobenzene	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U	0.8 U
Chloroethane	0.1 U	0.1 U	0.1 U	0.41 U	0.1 U	1 U
Chloroform	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.8 U
Chloromethane	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	1 U
cis-1,2-Dichloroethene	0.1 U	0.1 U	0.1 U	0.15 U	0.1 U	32
cis-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	1 U
Dibromochloromethane	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U	1 U
Ethylbenzene	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	0.8 U
Methyl ethyl ketone	1 U	1 U	1 U	1.8 U	1 U	3 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	1 U	1 U	3 U
Methylene chloride	0.2 U	0.2 U	0.2 U	0.32 U	0.2 U	2 U
m-Xylene & p-Xylene	0.1 U	0.1 U	0.1 U	0.34 U	0.1 U	0.8 U
o-Xylene	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U	0.8 U
Tetrachloroethene	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.8 U
Toluene	0.1 U	0.1 U	0.1 U	0.17 U	0.2 J	0.7 U
trans-1,2-Dichloroethene	0.1 U	0.1 U	0.1 U	0.15 U	0.1 U	2 J
trans-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U	1 U
Trichloroethene	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U	2
Trichlorofluoromethane	0.1 U	0.1 U	0.1 U	0.29 U	0.1 U	0.5 U
Vinyl chloride	0.1 U	0.1 U	0.1 U	0.4 U	0.1 U	0.5 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-45C	RD-46A	RD-47	RD-48B	RD-48B	RD-48C
Sample Port:	---	---	---	---	---	---
Sample Type:	Primary	Primary	Primary	Primary	Split	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	TA-Denver	Lancaster
Collection Date:	08/12/2008	09/03/2008	08/18/2008	08/13/2008	08/13/2008	09/03/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	8 U	0.1 U	0.1 U	0.16 U	0.1 U
1,1,2,2-Tetrachloroethane	0.1 U	5 U	0.1 U	0.1 U	0.2 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	20 U	0.2 U	0.2 U	0.79 U	0.2 U
1,1,2-Trichloroethane	0.1 U	8 U	0.1 U	0.1 U	0.32 U	0.1 U
1,1-Dichloroethane	0.1 U	10 U	0.1 U	0.1 U	0.16 U	0.1 U
1,1-Dichloroethene	0.1 U	8 U	0.1 U	0.1 U	0.14 U	0.1 U
1,2-Dichlorobenzene	0.1 U	10 U	0.1 U	0.1 U	0.13 U	0.1 U
1,2-Dichloroethane	0.1 U	5 U	0.1 U	0.1 U	0.13 U	0.1 U
1,2-Dichloropropane	0.1 U	10 U	0.1 U	0.1 U	0.13 U	0.1 U
1,3-Dichlorobenzene	0.1 U	10 U	0.1 U	0.1 U	0.16 U	0.1 U
1,4-Dichlorobenzene	0.1 U	10 U	0.1 U	0.1 U	0.16 U	0.1 U
1,4-Dioxane	---	---	---	---	---	---
2-Hexanone	1 U	30 U	1 U	1 U	1.4 U	1 U
Acetone	3 U	60 U	3 U	3 U	1.9 U	3 U
Benzene	0.1 U	5 U	0.1 U	0.1 U	0.16 U	0.1 U
Bromodichloromethane	0.1 U	10 U	0.1 U	0.1 U	0.17 U	0.1 U
Bromoform	0.1 U	10 U	0.1 U	0.1 U	0.19 U	0.1 U
Bromomethane	0.1 U	10 U	0.1 U	0.1 U	0.21 U	0.1 U
Carbon Disulfide	0.4 U	10 U	0.4 U	0.4 U	0.45 U	0.4 U
Carbon Tetrachloride	0.1 U	5 U	0.1 U	0.1 U	0.19 U	0.1 U
Chlorobenzene	0.1 U	8 U	0.1 U	0.1 U	0.17 U	0.1 U
Chloroethane	0.1 U	10 U	0.1 U	0.1 U	0.41 U	0.1 U
Chloroform	0.1 U	8 U	0.1 U	0.1 U	0.16 U	0.1 U
Chloromethane	0.2 U	10 U	0.2 U	0.2 U	0.3 U	0.2 U
cis-1,2-Dichloroethene	0.1 U	840	0.5 J	0.1 U	0.15 U	0.1 U
cis-1,3-Dichloropropene	0.1 U	10 U	0.1 U	0.1 U	0.16 U	0.1 U
Dibromochloromethane	0.1 U	10 U	0.1 U	0.1 U	0.17 U	0.1 U
Ethylbenzene	0.1 U	8 U	0.1 U	0.1 U	0.16 U	0.1 U
Methyl ethyl ketone	1 U	30 U	1 U	1 U	1.8 U	1 U
Methyl isobutyl ketone (MIBK)	1 U	30 U	1 U	1 U	1 U	1 U
Methylene chloride	0.2 U	20 U	0.2 U	0.2 U	0.34 U	0.2 U
m-Xylene & p-Xylene	0.1 U	8 U	0.1 U	0.1 U	0.34 U	0.1 U
o-Xylene	0.1 U	8 U	0.1 U	0.1 U	0.19 U	0.1 U
Tetrachloroethene	0.1 U	8 U	0.1 U	0.1 U	0.2 U	0.1 U
Toluene	0.1 U	7 U	0.1 U	0.1 U	0.17 U	0.1 U
trans-1,2-Dichloroethene	0.1 U	8 U	0.1 U	0.1 U	0.15 U	0.1 U
trans-1,3-Dichloropropene	0.1 U	10 U	0.1 U	0.1 U	0.19 U	0.1 U
Trichloroethene	0.1 U	8100	0.1 U	0.1 U	0.16 U	0.1 U
Trichlorofluoromethane	0.1 U	5 U	0.1 U	0.1 U	0.29 U	0.1 U
Vinyl chloride	0.1 U	5 U	0.1 U	0.1 U	0.4 U	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-49A	RD-49B	RD-49C	RD-50	RD-51B	RD-51C
Sample Port:	---	---	---	Z2	---	---
Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	09/02/2008	08/27/2008	08/19/2008	08/06/2008	08/19/2008	08/26/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2,2-Tetrachloroethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	1.5 J	0.8	0.3 J	0.1 U	0.1 U	0.1 U
1,2-Dichlorobenzene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloroethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloropropane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,3-Dichlorobenzene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dichlorobenzene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dioxane	0.5 U	2.1	0.9 J	---	0.5 U	0.5 U
2-Hexanone	10 U	1 U	1 U	1 U	1 U	1 U
Acetone	30 U	3 U	3 U	3 U	3 U	3 U
Benzene	1 U	0.1 U	0.1 U	0.3 J,F	0.1 U	0.1 U
Bromodichloromethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromoform	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromomethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Carbon Disulfide	4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Carbon Tetrachloride	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chlorobenzene	1 U	0.1 U	0.1 U	0.1 J,S	0.1 U	0.1 U
Chloroethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloromethane	2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	980	250	80	0.1 U	11	0.1 U
cis-1,3-Dichloropropene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibromochloromethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Ethylbenzene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methyl ethyl ketone	10 U	1 U	1 U	1 U	1 U	1 U
Methyl isobutyl ketone (MIBK)	10 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m-Xylene & p-Xylene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
o-Xylene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Tetrachloroethene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Toluene	1 U	0.1 U	0.1 U	9.1 F	0.1 U	0.1 U
trans-1,2-Dichloroethene	18	16	4.2	0.1 U	1.1	0.1 U
trans-1,3-Dichloropropene	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichloroethene	1100	260	15	0.1 J	4.5	0.1 J
Trichlorofluoromethane	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl chloride	1.1 J	3.7	2	0.1 U	8.4	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-51C	RD-51C	RD-52B	RD-53	RD-54A	RD-54A
Sample Port:	---	---	---	---	Z2	Z2
Sample Type:	Duplicate	Split	Primary	Primary	Primary	Duplicate
Lab Name:	Lancaster	TA-Denver	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	08/26/2008	08/26/2008	08/12/2008	08/27/2008	08/07/2008	08/07/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.16 U	0.1 U	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane	0.1 U	0.2 U	0.1 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.79 U	0.2 U	4 J	2 U	2 U
1,1,2-Trichloroethane	0.1 U	0.32 U	0.1 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane	0.1 U	0.16 U	0.1 U	2 J	1 U	1 U
1,1-Dichloroethene	0.1 U	0.14 U	0.1 U	11	2 J	2 J
1,2-Dichlorobenzene	0.1 U	0.13 U	0.1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.1 U	0.13 U	0.1 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	0.1 U	0.13 U	0.1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	0.1 U	0.16 U	0.1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	0.1 U	0.16 U	0.1 U	1 U	1 U	1 U
1,4-Dioxane	---	---	---	---	---	---
2-Hexanone	1 U	1.4 U	1 U	3 U	3 U	3 U
Acetone	3 U	1.9 U	3 U	6 U	6 U	6 U
Benzene	0.1 U	0.16 U	0.1 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.1 U	0.17 U	0.1 U	1 U	1 U	1 U
Bromoform	0.1 U	0.19 U	0.1 U	1 U	1 U	1 U
Bromomethane	0.1 U	0.21 U	0.1 U	1 U	1 U	1 U
Carbon Disulfide	0.4 U	0.45 U	0.4 U	1 U	1 U	1 U
Carbon Tetrachloride	0.1 U	0.19 U	0.1 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	0.1 U	0.17 U	0.1 U	0.8 U	0.8 U	0.8 U
Chloroethane	0.1 U	0.41 U	0.1 U	1 U	1 U	1 U
Chloroform	0.1 U	0.16 U	0.1 U	0.8 U	0.8 U	0.8 U
Chloromethane	0.2 U	0.3 U	0.2 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	0.1 U	0.15 U	5.5	9	49	46
cis-1,3-Dichloropropene	0.1 U	0.16 U	0.1 U	1 U	1 U	1 U
Dibromochloromethane	0.1 U	0.17 U	0.1 U	1 U	1 U	1 U
Ethylbenzene	0.1 U	0.16 U	0.1 U	0.8 U	0.8 U	0.8 U
Methyl ethyl ketone	1 U	1.8 U	1 U	3 U	3 U	3 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	3 U	3 U	3 U
Methylene chloride	0.2 U	0.41 U	0.2 U	2 U	2 U	2 U
m-Xylene & p-Xylene	0.1 U	0.34 U	0.1 U	0.8 U	0.8 U	0.8 U
o-Xylene	0.1 U	0.19 U	0.1 U	0.8 U	0.8 U	0.8 U
Tetrachloroethene	0.1 U	0.2 U	0.1 U	0.8 U	0.8 U	0.8 U
Toluene	0.1 U	0.17 U	0.1 U	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene	0.1 U	0.15 U	2	0.8 U	0.9 J	0.8 U
trans-1,3-Dichloropropene	0.1 U	0.19 U	0.1 U	1 U	1 U	1 U
Trichloroethene	0.1 J	0.16 U	1.3	270	7	8
Trichlorofluoromethane	0.1 U	0.29 U	0.1 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	0.1 U	0.4 U	0.1 J	0.5 U	0.5 U	0.5 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-54C	RD-55A	RD-55B	RD-55B	RD-56B	RD-57
Sample Port:	---	---	---	---	---	Z5
Sample Type:	Primary	Primary	Primary	Duplicate	Primary	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	08/07/2008	08/26/2008	08/27/2008	08/27/2008	08/25/2008	08/08/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2,2-Tetrachloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	0.1 U	0.2 J	0.3 J	0.3 J	0.1 U	0.1 U
1,2-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloropropane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,3-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dioxane	---	0.5 U	0.5 U	---	---	---
2-Hexanone	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	3 U	3 U	87	84	3 U	3.4 J,S
Benzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 J,F
Bromodichloromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromoform	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromomethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Carbon Disulfide	0.5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Carbon Tetrachloride	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 S
Chloroethane	0.1 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloromethane	0.2 U	0.2 U	0.3 J	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.1 U	31	15	15	0.2 J	0.1 U
cis-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibromochloromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Ethylbenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methyl ethyl ketone	1 U	1 U	1 U	1 U	1 U	1 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m-Xylene & p-Xylene	0.1 U	0.1 U	0.3 J	0.3 J	0.1 U	0.1 U
o-Xylene	0.1 U	0.1 U	0.2 J	0.2 J	0.1 U	0.1 U
Tetrachloroethene	0.1 U	0.1 J	0.1 U	0.1 U	0.1 U	0.1 U
Toluene	0.1 U	0.1 U	0.9	0.9	0.1 U	0.1 U
trans-1,2-Dichloroethene	0.1 U	1.9	0.1 J	0.1 J	0.1 U	0.1 U
trans-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichloroethene	0.1 U	23	21	21	0.5 J	0.1 U
Trichlorofluoromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl chloride	0.1 U	4.3	0.1 J	0.1 J	0.1 U	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-58A	RD-58A	RD-58B	RD-58C	RD-59A	RD-59B
Sample Port:	---	---	---	---	---	---
Sample Type:	Primary	Duplicate	Primary	Primary	Primary	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	09/02/2008	09/02/2008	08/21/2008	08/15/2008	08/14/2008	08/14/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2,2-Tetrachloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	4.9	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloropropane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,3-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dioxane	0.5 U	---	0.6 J	---	---	---
2-Hexanone	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	3 U	3 U	3 U	3 U	3 U	3 U
Benzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromodichloromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromoform	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromomethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Carbon Disulfide	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Carbon Tetrachloride	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	7.6	7.6	0.1 U	0.6	0.1 U	0.1 U
cis-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibromochloromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Ethylbenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methyl ethyl ketone	1 U	1 U	1 U	1 U	1 U	1 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m-Xylene & p-Xylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
o-Xylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Tetrachloroethene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Toluene	0.1 U	0.1 U	0.3 J	0.1 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
trans-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichloroethene	93	97	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl chloride	0.1 U	0.1 U	0.1 U	1.8	0.1 U	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-59C	RD-60	RD-61	RD-61	RD-61	RD-62
Sample Port:	---	---	---	---	---	---
Sample Type:	Primary	Primary	Primary	Duplicate	Split	Primary
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	TA-Denver	Lancaster
Collection Date:	08/14/2008	08/13/2008	08/21/2008	08/21/2008	08/21/2008	08/27/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.8 U	0.1 U	0.1 U	0.16 U	0.1 U
1,1,2,2-Tetrachloroethane	0.1 U	0.5 U	0.1 U	0.1 U	0.2 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	2 U	0.2 U	0.2 U	0.79 U	0.2 U
1,1,2-Trichloroethane	0.1 U	0.8 U	0.1 U	0.1 U	0.32 U	0.1 U
1,1-Dichloroethane	0.1 U	2 J	0.1 U	0.1 U	0.16 U	0.1 U
1,1-Dichloroethene	0.1 U	3 J	0.1 U	0.1 U	0.14 U	0.1 U
1,2-Dichlorobenzene	0.1 U	1 U	0.1 U	0.1 U	0.13 U	0.1 U
1,2-Dichloroethane	0.1 U	3	0.1 U	0.1 U	0.13 U	0.1 U
1,2-Dichloropropane	0.1 U	1 U	0.1 U	0.1 U	0.13 U	0.1 U
1,3-Dichlorobenzene	0.1 U	1 U	0.1 U	0.1 U	0.16 U	0.1 U
1,4-Dichlorobenzene	0.1 U	1 U	0.1 U	0.1 U	0.16 U	0.1 U
1,4-Dioxane	---	---	---	---	---	---
2-Hexanone	1 U	3 U	1 U	1 U	1.4 U	1 U
Acetone	3 U	6 U	3 U	3 U	2.7 U	3 U
Benzene	0.1 U	0.5 U	0.1 U	0.1 U	0.16 U	0.1 U
Bromodichloromethane	0.1 U	1 U	0.1 U	0.1 U	0.17 U	0.1 U
Bromoform	0.1 U	1 U	0.1 U	0.1 U	0.19 U	0.1 U
Bromomethane	0.1 U	1 U	0.1 U	0.1 U	0.21 U	0.1 U
Carbon Disulfide	0.4 U	1 U	0.4 U	0.4 U	0.45 U	0.4 U
Carbon Tetrachloride	0.1 U	0.5 U	0.1 U	0.1 U	0.19 U	0.1 U
Chlorobenzene	0.1 U	0.8 U	0.1 U	0.1 U	0.17 U	0.1 U
Chloroethane	0.1 U	1 U	0.1 U	0.1 U	0.41 U	0.1 U
Chloroform	0.1 U	0.8 U	0.1 U	0.1 U	0.16 U	0.1 U
Chloromethane	0.2 U	1 U	0.2 U	0.2 U	0.3 U	0.2 U
cis-1,2-Dichloroethene	0.1 U	21	0.1 U	0.1 U	0.15 U	0.1 U
cis-1,3-Dichloropropene	0.1 U	1 U	0.1 U	0.1 U	0.16 U	0.1 U
Dibromochloromethane	0.1 U	1 U	0.1 U	0.1 U	0.17 U	0.1 U
Ethylbenzene	0.1 U	0.8 U	0.1 U	0.1 U	0.16 U	0.1 U
Methyl ethyl ketone	1 U	3 U	1 U	1 U	1.8 U	1 U
Methyl isobutyl ketone (MIBK)	1 U	3 U	1 U	1 U	1 U	1 U
Methylene chloride	0.2 U	2 U	0.2 U	0.2 U	0.32 U	0.2 U
m-Xylene & p-Xylene	0.1 U	0.8 U	0.1 U	0.1 U	0.34 U	0.1 U
o-Xylene	0.1 U	0.8 U	0.1 U	0.1 U	0.19 U	0.1 U
Tetrachloroethene	0.1 U	0.8 U	0.1 U	0.1 U	0.2 U	0.1 U
Toluene	0.1 U	0.7 U	0.1 U	0.1 U	0.17 U	0.1 U
trans-1,2-Dichloroethene	0.1 U	0.8 U	0.1 U	0.1 U	0.15 U	0.1 U
trans-1,3-Dichloropropene	0.1 U	1 U	0.1 U	0.1 U	0.19 U	0.1 U
Trichloroethene	0.1 U	490	0.1 U	0.1 U	0.16 U	0.1 U
Trichlorofluoromethane	0.1 U	0.5 U	0.1 U	0.1 U	0.29 U	0.1 U
Vinyl chloride	0.1 U	0.5 U	0.1 U	0.1 U	0.4 U	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-63	RD-66	RD-67	RD-68A	RD-68B	RD-68B
Sample Port:	---	---	---	---	---	---
Sample Type:	Primary	Primary	Primary	Primary	Primary	Duplicate
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	08/12/2008	08/13/2008	09/03/2008	08/14/2008	08/14/2008	08/14/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2,2-Tetrachloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	0.7	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	1.4	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloropropane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,3-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dioxane	---	---	0.5 U	---	---	---
2-Hexanone	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	3 U	3 U	3 U	6.7	3 U	3 U
Benzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromodichloromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromoform	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromomethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Carbon Disulfide	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Carbon Tetrachloride	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	4.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
cis-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibromochloromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Ethylbenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methyl ethyl ketone	1 U	1 U	1 U	1 U	1 U	1 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m-Xylene & p-Xylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
o-Xylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Tetrachloroethene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Toluene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
trans-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichloroethene	10	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl chloride	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-68B	RD-69	RD-70	RD-70	RD-70	RD-71
Sample Port:	---	---	---	---	---	---
Sample Type:	Split	Primary	Primary	Duplicate	Split	Primary
Lab Name:	TA-Denver	Lancaster	Lancaster	Lancaster	TA-Denver	Lancaster
Collection Date:	08/14/2008	09/09/2008	08/21/2008	08/21/2008	08/21/2008	08/13/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.16 U	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U
1,1,2,2-Tetrachloroethane	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.79 U	0.2 U	0.2 U	0.2 U	0.79 U	0.2 U
1,1,2-Trichloroethane	0.32 U	0.1 U	0.1 U	0.1 U	0.32 U	0.1 U
1,1-Dichloroethane	0.16 U	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U
1,1-Dichloroethene	0.14 U	0.1 U	0.1 U	0.1 U	0.14 U	0.1 U
1,2-Dichlorobenzene	0.13 U	0.1 U	0.1 U	0.1 U	0.13 U	0.1 U
1,2-Dichloroethane	0.13 U	0.1 U	0.1 U	0.1 U	0.13 U	0.1 U
1,2-Dichloropropane	0.13 U	0.1 U	0.1 U	0.1 U	0.13 U	0.1 U
1,3-Dichlorobenzene	0.16 U	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U
1,4-Dichlorobenzene	0.16 U	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U
1,4-Dioxane	---	---	---	---	---	---
2-Hexanone	1.4 U	1 U	1 U	1 U	1.4 U	1 U
Acetone	1.9 U	3 U	3 U	3 U	2.2 U	3 U
Benzene	0.16 U	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U
Bromodichloromethane	0.17 U	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U
Bromoform	0.19 U	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U
Bromomethane	0.21 U	0.1 U	0.1 U	0.1 U	0.21 U	0.1 U
Carbon Disulfide	0.45 U	0.4 U	0.4 U	0.4 U	0.45 U	0.4 U
Carbon Tetrachloride	0.19 U	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U
Chlorobenzene	0.17 U	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U
Chloroethane	0.41 U	0.1 U	0.1 U	U	0.41 U	0.1 U
Chloroform	0.16 U	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U
Chloromethane	0.3 U	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U
cis-1,2-Dichloroethene	0.17 J	0.1 U	0.1 U	0.1 U	0.15 U	0.1 U
cis-1,3-Dichloropropene	0.16 U	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U
Dibromochloromethane	0.17 U	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U
Ethylbenzene	0.16 U	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U
Methyl ethyl ketone	1.8 U	1 U	1 U	1 U	1.8 U	1 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	0.32 U	0.2 U	0.2 U	0.2 U	0.32 U	0.2 U
m-Xylene & p-Xylene	0.34 U	0.1 U	0.1 U	0.1 U	0.34 U	0.1 U
o-Xylene	0.19 U	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U
Tetrachloroethene	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
Toluene	0.17 U	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U
trans-1,2-Dichloroethene	0.15 U	0.1 U	0.1 U	0.1 U	0.15 U	0.1 U
trans-1,3-Dichloropropene	0.19 U	0.1 U	0.1 U	0.1 U	0.19 U	0.1 U
Trichloroethene	0.16 U	0.1 U	0.1 U	0.1 U	0.16 U	0.1 U
Trichlorofluoromethane	0.29 U	0.1 U	0.1 U	0.1 U	0.29 U	0.1 U
Vinyl chloride	0.4 U	0.1 U	0.1 J	0.1 J	0.4 U	0.1 U

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	RD-98	RD-98	WS-04A	WS-05	WS-06	WS-06
Sample Port:	---	---	---	---	---	---
Sample Type:	Primary	Primary	Primary	Primary	Primary	Duplicate
Lab Name:	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:	06/26/2008	09/11/2008	09/03/2008	08/21/2008	09/09/2008	09/09/2008
Analyte (ug/L)						
1,1,1-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2,2-Tetrachloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	1.4	1.5	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	0.1 U	0.1 U	0.1 U	0.1 U	0.4 J	0.3 J
1,2-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloropropane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,3-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dioxane	---	---	---	2.4	0.9 J	---
2-Hexanone	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	3 U	3 U	3 U	3 U	3 U	3 U
Benzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromodichloromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromoform	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromomethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Carbon Disulfide	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Carbon Tetrachloride	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	0.1 J	0.1 J	0.1 U	0.1 U	0.1 U	0.1 U
Chloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.1 J	0.1 U	0.1 U	1.5	130	130
cis-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibromochloromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Ethylbenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methyl ethyl ketone	1 U	1 U	1 U	1 U	1 U	1 U
Methyl isobutyl ketone (MIBK)	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m-Xylene & p-Xylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
o-Xylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Tetrachloroethene	0.5	0.4 J	0.1 U	0.1 U	0.1 U	0.1 U
Toluene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	0.1 U	0.1 U	0.1 U	0.2 J	12	12
trans-1,3-Dichloropropene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichloroethene	9.7	8.8	0.1 U	0.7	5.1	5.3
Trichlorofluoromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl chloride	0.1 U	0.1 U	0.1 U	0.1 J	6.7	6.8

See last page of table for notes and abbreviations.

TABLE IV
SUMMARY OF ANALYSES FOR VOLATILE ORGANIC COMPOUNDS
IN CHATSWORTH FORMATION WELLS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:	WS-09	WS-09A	WS-09A
Sample Port:	---	---	---
Sample Type:	Primary	Primary	Duplicate
Lab Name:	Lancaster	Lancaster	Lancaster
Collection Date:	08/20/2008	08/20/2008	08/20/2008
Analyte (ug/L)			
1,1,1-Trichloroethane	10 U	0.1 U	0.1 U
1,1,2,2-Tetrachloroethane	10 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	20 U	0.2 U	0.2 U
1,1,2-Trichloroethane	10 U	0.1 U	0.1 U
1,1-Dichloroethane	10 U	0.1 U	0.1 U
1,1-Dichloroethene	11 J	0.1 J	0.1 J
1,2-Dichlorobenzene	10 U	0.1 U	0.1 U
1,2-Dichloroethane	10 U	0.1 U	0.1 U
1,2-Dichloropropane	10 U	0.1 U	0.1 U
1,3-Dichlorobenzene	10 U	0.1 U	0.1 U
1,4-Dichlorobenzene	10 U	0.1 U	0.1 U
1,4-Dioxane	2.5	0.5 U	---
2-Hexanone	100 U	1 U	1 U
Acetone	300 U	3 U	3 J
Benzene	10 U	0.1 U	0.1 U
Bromodichloromethane	10 U	0.1 U	0.1 U
Bromoform	10 U	0.1 U	0.1 U
Bromomethane	10 U	0.1 U	0.1 U
Carbon Disulfide	40 U	0.4 U	0.4 U
Carbon Tetrachloride	10 U	0.1 U	0.1 U
Chlorobenzene	10 U	0.1 U	0.1 U
Chloroethane	10 U	0.1 U	0.1 U
Chloroform	10 U	0.1 U	0.1 U
Chloromethane	20 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	700	18	20
cis-1,3-Dichloropropene	10 U	0.1 U	0.1 U
Dibromochloromethane	10 U	0.1 U	0.1 U
Ethylbenzene	10 U	0.1 U	0.1 U
Methyl ethyl ketone	100 U	1 U	1 U
Methyl isobutyl ketone (MIBK)	100 U	1 U	1 U
Methylene chloride	20 U	0.2 U	0.2 U
m-Xylene & p-Xylene	10 U	0.1 U	0.1 U
o-Xylene	10 U	0.1 U	0.1 U
Tetrachloroethene	10 U	0.1 U	0.1 U
Toluene	10 U	0.1 U	0.2 J
trans-1,2-Dichloroethene	18 J	1.4	1.6
trans-1,3-Dichloropropene	10 U	0.1 U	0.1 U
Trichloroethene	16000	4.1	4.1
Trichlorofluoromethane	10 U	0.1 U	0.1 U
Vinyl chloride	10 U	0.2 J	0.2 J

See last page of table for notes and abbreviations.

TABLE IV
NOTES AND ABBREVIATIONS

1.	Lancaster	=	Lancaster Laboratories of Lancaster, Pennsylvania.
2.	TA-Denver	=	TestAmerica of Arvada, Colorado.
3.	---	=	Analysis not performed.
4.	ug/L	=	Micrograms per liter.
5.	F	=	Sampled through multi-level FLUTe ports. Footnoted results are not representative of past groundwater samples, and may have been introduced in the FLUTe samples by compressed nitrogen gas, electrical tape and/or FLUTe components.
6.	J	=	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL), or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
7.	L	=	Laboratory contaminant.
8.	R	=	Rejected result (see Appendix A for details).
9.	S	=	Suspect result. Result is not representative of past groundwater samples.
10.	U	=	Not detected.
11.	Z	=	FLUTe sample port number.

12. Analyses were performed using EPA method 8260B for all volatile organic compounds except 1,4-dioxane which was analyzed by EPA method 8620SIM.

TABLE V

SUMMARY OF ANALYSES FOR FUEL HYDROCARBONS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**ES-21**	**HAR-11**	**HAR-14**	**HAR-15**	**PZ-122**	**RD-19**	**RD-30**	**RD-32**
Geological Unit:		Shallow	Shallow	Shallow	Shallow	Shallow	Chatsworth	Chatsworth	Chatsworth
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Analysis Method:		8015B	8015B	8015B	8015B	8015B	8015B	8015B	8015B
Lab Name:		Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:		09/04/08	09/04/08	08/21/08	08/21/08	08/20/08	08/11/08	08/13/08	08/13/08
Analyte	Units								
Extractable Fuel Hydrocarbons (C8-C11)	mg/L	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	---
Extractable Fuel Hydrocarbons (C12-C14)	mg/L	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	---
Extractable Fuel Hydrocarbons (C15-C20)	mg/L	0.19 U	0.49 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	---
Extractable Fuel Hydrocarbons (C21-C30)	mg/L	0.19 U	0.53 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	---
Extractable Fuel Hydrocarbons (C8-C30)	mg/L	0.19 U	1.1	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	---
Gasoline Range Organics (C6-C12)	ug/L	---	---	---	---	---	---	---	120

See last page of table for notes and abbreviations.

TABLE V
SUMMARY OF ANALYSES FOR FUEL HYDROCARBONS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-36B**	**RD-36C**	**RD-36D**	**RD-37**	**RD-38B**	**RD-53**	**RD-98**	**RD-98**
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Analysis Method:		8015B	8015B	8015B	8015B	8015B	8015B	8015B	8015B
Lab Name:		Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:		08/14/08	08/15/08	08/15/08	09/09/08	09/05/08	08/27/08	06/26/08	09/11/08
Analyte	Units								
Extractable Fuel Hydrocarbons (C8-C11)	mg/L	---	---	---	---	---	---	0.2 U	0.21 U
Extractable Fuel Hydrocarbons (C12-C14)	mg/L	---	---	---	---	---	---	0.2 U	0.21 U
Extractable Fuel Hydrocarbons (C15-C20)	mg/L	---	---	---	---	---	---	0.2 U	0.21 U
Extractable Fuel Hydrocarbons (C21-C30)	mg/L	---	---	---	---	---	---	0.2 U	0.21 U
Extractable Fuel Hydrocarbons (C8-C30)	mg/L	---	---	---	---	---	---	0.2 U	0.21 U
Gasoline Range Organics (C6-C12)	ug/L	50 U	50 U	50 U	50 U	50 U	100	---	---

See last page of table for notes and abbreviations.

TABLE V
NOTES AND ABBREVIATIONS

1.	Lancaster	=	Lancaster Laboratories of Lancaster, Pennsylvania.
2.	Chatsworth	=	Chatsworth Formation wells.
3.	Shallow	=	Shallow wells and piezometers.
4.	---	=	Analysis not performed.
5.	mg/L	=	Milligrams per liter.
6.	ug/L	=	Micrograms per liter.
7.	J	=	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL), or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
8.	U	=	Not detected.

TABLE VI
SUMMARY OF ANALYSES FOR RADIONUCLIDES, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		ES-31			RS-28			RS-54			RD-07			RD-15		
Geologic Unit:		Shallow			Shallow			Shallow			Chatsworth			Chatsworth		
Sample Port:		---			---			---			Z3			---		
Sample Type:		Primary			Primary			Primary			Primary			Primary		
Lab Name:		Eberline			Eberline			Eberline			Eberline			Eberline		
Collection Date:		8/19/2008			8/19/2008			9/4/2008			8/6/2008			8/6/2008		
Radionuclide	**Method**	Result (pCi/L)			Result (pCi/L)			Result (pCi/L)			Result (pCi/L)			Result (pCi/L)		
Gross Alpha, Gross Beta, Radium, Tritium		Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA
Gross Alpha	900.0	5.53	2.2	1.69	4.02	2.7	3.63	18	5.8	3.51	26.4	6.9	2.43	6.28	2.7	2.61
Gross Beta	900.0	5.19	1.3	1.76	8.1	2.4	3.33	9.93	2.6	3.47	18.4	3.5	4.15	5.74	2	2.82
Radium-226	903.1	-0.02 U	0.36	0.705	-0.032 U	0.3	0.606	0.043 U	0.39	0.734	0.306 U	0.42	0.71	0.666 J	0.43	0.598
Radium-228	904.0	0.450 U	0.24	0.593	0.425 U	0.21	0.538	-0.091 U	1.5	1.38	1.16	0.35	0.542	1.0	0.25	0.512
Tritium	906.0	---	---	---	---	---	---	-63.5 U	92	158	-39.7 U	100	176	---	---	---
Gamma-emitting Radionuclides																
Aluminum-26	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Americium-241	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Americium-241	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Beryllium-7	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cerium-139	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cerium-144	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cesium-134	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cesium-137	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chromium-51	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-56	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-57	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-58	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-60	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Europium-152	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Europium-154	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manganese-54	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Plutonium-238	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Plutonium-239	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Potassium-40	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver-110m	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sodium-22	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Strontium, Thorium, Uranium																
Strontium-90	905.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-228	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-230	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-232	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uranium-233/234	908.0	---	---	---	---	---	---	11.8	1.1	0.079	19.1	1.7	0.076	---	---	---
Uranium-235	908.0	---	---	---	---	---	---	0.730 J	0.12	0.029	0.45 U	0.23	0.458	---	---	---
Uranium-238	908.0	---	---	---	---	---	---	10.9	1.0	0.077	15.4	1.4	0.074	---	---	---

See last page of table for notes and abbreviations.

TABLE VI
SUMMARY OF ANALYSES FOR RADIONUCLIDES, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		RD-17			RD-21			RD-22			RD-23			RD-27		
Geologic Unit:		Chatsworth			Chatsworth			Chatsworth			Chatsworth			Chatsworth		
Sample Port:		---			Z3			Z2			Z2			---		
Sample Type:		Primary			Primary			Primary			Primary			Primary		
Lab Name:		Eberline			Eberline			Eberline			Eberline			Eberline		
Collection Date:		8/6/2008			8/6/2008			8/6/2008			8/7/2008			9/4/2008		
Radionuclide	**Method**	Result (pCi/L)			Result (pCi/L)			Result (pCi/L)			Result (pCi/L)			Result (pCi/L)		
Gross Alpha, Gross Beta, Radium, Tritium		Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA
Gross Alpha	900.0	5.66	2.9	3.6	1.82 U	1.6	2.21	3.76	2.5	3.1	3.5	1.7	1.61	4.12	1.8	1.76
Gross Beta	900.0	7.02	1.9	2.52	10.3	1.9	1.93	5.54	3.4	5.15	17.1	2.3	1.72	10.3	1.7	1.63
Radium-226	903.1	1.51	0.58	0.562	0.105 U	0.29	0.516	1.52	0.62	0.669	0.899 J	0.5	0.664	2.11	0.73	0.665
Radium-228	904.0	0.894 J	0.25	0.516	0.108 U	0.29	0.507	2.62	0.49	0.553	0.669 J	0.24	0.546	3.01	0.39	0.392
Tritium	906.0	---	---	---	---	---	---	---	---	---	---	---	---	-88.1 U	90	156
Gamma-emitting Radionuclides																
Aluminum-26	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.771
Americium-241	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.889
Americium-241	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Beryllium-7	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	6.74
Cerium-139	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.44
Cerium-144	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	2.89
Cesium-134	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.922
Cesium-137	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.73
Chromium-51	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	7.5
Cobalt-56	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.937
Cobalt-57	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.419
Cobalt-58	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.825
Cobalt-60	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.755
Europium-152	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	1.79
Europium-154	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	2.06
Manganese-54	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.698
Plutonium-238	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Plutonium-239	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Potassium-40	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	9.3
Silver-110m	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.979
Sodium-22	901.1	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.702
Strontium, Thorium, Uranium																
Strontium-90	905.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-228	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-230	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-232	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uranium-233/234	908.0	---	---	---	3.95	0.41	0.051	---	---	---	---	---	---	---	---	---
Uranium-235	908.0	---	---	---	0.197 J	0.059	0.038	---	---	---	---	---	---	---	---	---
Uranium-238	908.0	---	---	---	3.35	0.35	0.048	---	---	---	---	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VI
SUMMARY OF ANALYSES FOR RADIONUCLIDES, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		RD-29			RD-30			RD-33A			RD-33B			RD-33C		
Geologic Unit:		Chatsworth			Chatsworth			Chatsworth			Chatsworth			Chatsworth		
Sample Port:		---			---			Z2			---			---		
Sample Type:		Primary			Primary			Primary			Primary			Primary		
Lab Name:		Eberline			Eberline			Eberline			Eberline			Eberline		
Collection Date:		8/11/2008			8/13/2008			8/8/2008			8/7/2008			8/7/2008		
Radionuclide	**Method**	Result (pCi/L)			Result (pCi/L)			Result (pCi/L)			Result (pCi/L)			Result (pCi/L)		
Gross Alpha, Gross Beta, Radium, Tritium		Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA
Gross Alpha	900.0	10.8	3.7	3.21	7.56	3.6	4.06	8.77	2.6	1.64	1.35 U	1.6	2.62	2.94 J	1.8	2.11
Gross Beta	900.0	7.95	2.3	3.4	8.74	2.8	3.87	6.98	1.5	2.02	4.86	1.3	1.85	5.77	2.3	3.36
Radium-226	903.1	-0.023 U	0.37	0.728	0.161 U	0.43	0.78	0.963 J	0.51	0.64	0.575 J	0.33	0.419	1.6	0.61	0.616
Radium-228	904.0	0.69 J	0.63	0.52	0.817 J	0.43	0.531	1.95	0.34	0.55	0.844 J	0.24	0.51	2.31	0.34	0.426
Tritium	906.0	---	---	---	12.5 U	94	158	---	---	---	-10.5 U	100	177	-18.8 U	100	176
Gamma-emitting Radionuclides																
Aluminum-26	901.1	---	---	---	ND	---	0.877	---	---	---	---	---	---	---	---	---
Americium-241	901.1	---	---	---	ND	---	0.966	---	---	---	---	---	---	---	---	---
Americium-241	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Beryllium-7	901.1	---	---	---	ND	---	6.88	---	---	---	---	---	---	---	---	---
Cerium-139	901.1	---	---	---	ND	---	0.519	---	---	---	---	---	---	---	---	---
Cerium-144	901.1	---	---	---	ND	---	3.13	---	---	---	---	---	---	---	---	---
Cesium-134	901.1	---	---	---	ND	---	0.932	---	---	---	---	---	---	---	---	---
Cesium-137	901.1	---	---	---	ND	---	0.808	---	---	---	---	---	---	---	---	---
Chromium-51	901.1	---	---	---	ND	---	6.93	---	---	---	---	---	---	---	---	---
Cobalt-56	901.1	---	---	---	ND	---	0.871	---	---	---	---	---	---	---	---	---
Cobalt-57	901.1	---	---	---	ND	---	0.42	---	---	---	---	---	---	---	---	---
Cobalt-58	901.1	---	---	---	ND	---	0.839	---	---	---	---	---	---	---	---	---
Cobalt-60	901.1	---	---	---	ND	---	0.893	---	---	---	---	---	---	---	---	---
Europium-152	901.1	---	---	---	ND	---	1.96	---	---	---	---	---	---	---	---	---
Europium-154	901.1	---	---	---	ND	---	2.47	---	---	---	---	---	---	---	---	---
Manganese-54	901.1	---	---	---	ND	---	0.756	---	---	---	---	---	---	---	---	---
Plutonium-238	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Plutonium-239	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Potassium-40	901.1	---	---	---	ND	---	9.88	---	---	---	---	---	---	---	---	---
Silver-110m	901.1	---	---	---	ND	---	0.953	---	---	---	---	---	---	---	---	---
Sodium-22	901.1	---	---	---	ND	---	0.775	---	---	---	---	---	---	---	---	---
Strontium, Thorium, Uranium																
Strontium-90	905.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-228	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-230	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-232	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uranium-233/234	908.0	8.05	0.92	0.123	---	---	---	---	---	---	---	---	---	---	---	---
Uranium-235	908.0	0.435 J	0.15	0.099	---	---	---	---	---	---	---	---	---	---	---	---
Uranium-238	908.0	7.87	0.9	0.114	---	---	---	---	---	---	---	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VI
SUMMARY OF ANALYSES FOR RADIONUCLIDES, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		RD-34A			RD-34B			RD-34C			RD-54A			RD-54C		
Geologic Unit:		Chatsworth			Chatsworth			Chatsworth			Chatsworth			Chatsworth		
Sample Port:		---			---			---			Z2			---		
Sample Type:		Primary			Primary			Primary			Primary			Primary		
Lab Name:		Eberline			Eberline			Eberline			Eberline			Eberline		
Collection Date:		8/7/2008			8/7/2008			8/7/2008			8/7/2008			8/7/2008		
Radionuclide	**Method**	Result (pCi/L)			Result (pCi/L)			Result (pCi/L)			Result (pCi/L)			Result (pCi/L)		
Gross Alpha, Gross Beta, Radium, Tritium		Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA
Gross Alpha	900.0	16.4	5.5	3.43	5.12	2.5	2.34	4.23	2.9	4.17	9.3	3.2	2.41	1.71 U	1.3	1.88
Gross Beta	900.0	19	3.8	4.54	8.01	2.2	2.92	4.45	1.2	1.65	7.06	2	2.59	3.04 J	1.3	1.98
Radium-226	903.1	0.618 J	0.43	0.616	0.468 J	0.33	0.455	0.827 J	0.48	0.651	0.609 J	0.41	0.583	0.3 U	0.34	0.556
Radium-228	904.0	0.162 U	0.12	0.403	1.39	0.25	0.4	0.907 J	0.9	0.403	0.937 J	0.44	0.483	0.411 U	0.18	0.489
Tritium	906.0	876	160	177	263	110	176	31.3 U	100	176	99.9 U	110	176	12.5 U	100	176
Gamma-emitting Radionuclides																
Aluminum-26	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Americium-241	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Americium-241	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Beryllium-7	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cerium-139	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cerium-144	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cesium-134	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cesium-137	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chromium-51	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-56	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-57	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-58	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-60	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Europium-152	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Europium-154	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manganese-54	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Plutonium-238	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Plutonium-239	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Potassium-40	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver-110m	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sodium-22	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Strontium, Thorium, Uranium																
Strontium-90	905.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-228	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-230	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-232	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uranium-233/234	908.0	9.22	0.86	0.069	---	---	---	---	---	---	---	---	---	---	---	---
Uranium-235	908.0	0.485 J	0.097	0.03	---	---	---	---	---	---	---	---	---	---	---	---
Uranium-238	908.0	9.85	0.91	0.063	---	---	---	---	---	---	---	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VI
SUMMARY OF ANALYSES FOR RADIONUCLIDES, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		RD-57			RD-59A			RD-59B			RD-59C			RD-63		
Geologic Unit:		Chatsworth			Chatsworth			Chatsworth			Chatsworth			Chatsworth		
Sample Port:		Z5			---			---			---			---		
Sample Type:		Primary			Primary			Primary			Primary			Primary		
Lab Name:		Eberline			Eberline			Eberline			Eberline			Eberline		
Collection Date:		8/8/2008			8/14/2008			8/14/2008			8/14/2008			8/12/2008		
Radionuclide	**Method**	Result (pCi/L)			Result (pCi/L)			Result (pCi/L)			Result (pCi/L)			Result (pCi/L)		
Gross Alpha, Gross Beta, Radium, Tritium		Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA
Gross Alpha	900.0	0.086 U	0.73	1.29	3.53	2.3	3.1	2.57 J	1.8	2.22	0.596 U	2	3.36	7.42	3.2	2.93
Gross Beta	900.0	3.33 J	0.88	1.16	5.36	1.8	2.49	3.26 J	1.7	2.72	5.47	2.6	3.8	11	3	4.21
Radium-226	903.1	-0.066 U	0.31	0.625	1.07	0.63	0.834	0.452 U	0.42	0.639	0.388 U	0.43	0.702	1.69	0.62	0.644
Radium-228	904.0	---	---	---	0.336 U	0.2	0.51	1.02	0.25	0.519	1.09	0.25	0.496	1.51	0.82	0.511
Tritium	906.0	-12.6 U	100	177	-57.5 U	92	158	-70.3 U	92	158	-32.8 U	93	159	---	---	---
Gamma-emitting Radionuclides																
Aluminum-26	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Americium-241	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Americium-241	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Beryllium-7	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cerium-139	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cerium-144	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cesium-134	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cesium-137	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chromium-51	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-56	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-57	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-58	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt-60	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Europium-152	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Europium-154	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manganese-54	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Plutonium-238	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Plutonium-239	HASL-300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Potassium-40	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver-110m	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sodium-22	901.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Strontium, Thorium, Uranium																
Strontium-90	905.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-228	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-230	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thorium-232	907.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uranium-233/234	908.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uranium-235	908.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uranium-238	908.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VI
SUMMARY OF ANALYSES FOR RADIONUCLIDES, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		RD-64			RD-98			RD-98		
Geologic Unit:		Chatsworth			Chatsworth			Chatsworth		
Sample Port:		Z7			---			---		
Sample Type:		Primary			Primary			Primary		
Lab Name:		Eberline			Eberline			Eberline		
Collection Date:		8/7/2008			6/26/2008			9/11/2008		
Radionuclide	**Method**	Result (pCi/L)			Result (pCi/L)			Result (pCi/L)		
Gross Alpha, Gross Beta, Radium, Tritium		Activity	Error	MDA	Activity	Error	MDA	Activity	Error	MDA
Gross Alpha	900.0	4.41	2.6	2.96	5.39 J	2.7	3.00	4.16	2.2	2.24
Gross Beta	900.0	8.49	3	4.2	10.9	2.9	4.00	9.65	2	2.3
Radium-226	903.1	1.61	0.61	0.656	---	---	---	0.43 U	0.51	0.841
Radium-228	904.0	0.843 J	0.76	0.448	---	---	---	0.673 J	0.47	0.37
Tritium	906.0	---	---	---	2.71 U	92	154	-145 U	97	171
Gamma-emitting Radionuclides										
Aluminum-26	901.1	---	---	---	ND	---	0.893	ND	---	0.894
Americium-241	901.1	---	---	---	ND	---	5.44	ND	---	0.831
Americium-241	HASL-300	---	---	---	0.075 U	0.084	0.103	---	---	---
Beryllium-7	901.1	---	---	---	ND	---	9.34	ND	---	6.63
Cerium-139	901.1	---	---	---	ND	---	0.821	ND	---	0.473
Cerium-144	901.1	---	---	---	ND	---	5.78	ND	---	3.17
Cesium-134	901.1	---	---	---	ND	---	1.25	ND	---	1.12
Cesium-137	901.1	---	---	---	ND	---	1.09	ND	---	0.808
Chromium-51	901.1	---	---	---	ND	---	11.1	ND	---	7.33
Cobalt-56	901.1	---	---	---	ND	---	1.11	ND	---	0.878
Cobalt-57	901.1	---	---	---	ND	---	0.667	ND	---	0.385
Cobalt-58	901.1	---	---	---	ND	---	0.985	ND	---	0.899
Cobalt-60	901.1	---	---	---	ND	---	1.02	ND	---	0.865
Europium-152	901.1	---	---	---	ND	---	2.90	ND	---	2.14
Europium-154	901.1	---	---	---	ND	---	3.14	ND	---	2.6
Manganese-54	901.1	---	---	---	ND	---	0.977	ND	---	0.734
Plutonium-238	HASL-300	---	---	---	0.120 U	0.12	0.191	-0.027 U	0.055	0.139
Plutonium-239	HASL-300	---	---	---	0.04 U	0.04	0.152	-0.018 U	0.018	0.087
Potassium-40	901.1	---	---	---	ND	---	28.6	ND	---	8.64
Silver-110m	901.1	---	---	---	ND	---	1.28	ND	---	1.11
Sodium-22	901.1	---	---	---	ND	---	1.06	ND	---	0.846
Strontium, Thorium, Uranium										
Strontium-90	905.0	---	---	---	2.35	0.52	0.522	2.18	0.45	0.423
Thorium-228	907.0	---	---	---	0.046 U	0.040	0.065	0.028 U	0.056	0.096
Thorium-230	907.0	---	---	---	-0.003 U	0.034	0.052	0.035 U	0.042	0.043
Thorium-232	907.0	---	---	---	0.003 U	0.017	0.027	0.011 U	0.014	0.027
Uranium-233/234	908.0	2.88	0.32	0.048	2.8	0.32	0.045	2.4	0.28	0.037
Uranium-235	908.0	0.112 J	0.044	0.033	0.11 J	0.051	0.038	0.09 J	0.042	0.031
Uranium-238	908.0	2.35	0.27	0.044	2.14	0.26	0.039	1.85	0.23	0.032

See last page of table for notes and abbreviations.

TABLE VI
NOTES AND ABBREVIATIONS

1.	MDA	=	Minimum detectable activity.
2.	J	=	Result is less than contract-required MDA and greater than or equal to the MDA.
3.	U	=	Not detected above the MDA; numerical value is the activity for that radionuclide.
4.	ND	=	Non-detectable results for gamma-emitting radionuclides are presented as "ND".
5.	---	=	Analysis not performed.
6.	Z	=	FLUTe sample port number.
7.	pCi/L	=	PicoCuries per liter.
8.	Chatsworth	=	Chatsworth Formation wells.
9.	Shallow	=	Shallow wells.

10. Primary sample analyses were performed by Eberline Services of Richmond, California.

11. Detected concentrations are presented as the activity plus or minus the error. Any activity is reported by the laboratory.

12. Analytical results that are less than the procedure background value are shown as negative values.

13. Samples are filtered and acidified in the field with the exception of tritium.

14. As discussed in Appendix A, project specific MDAs were not always attained due in part to matrix conditions (e.g., dissolved and suspended solids) and limitations in the prescribed analytical methods (e.g., sample volumes, counting times).

TABLE VII
SUMMARY OF ANALYSES FOR METALS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		ES-21	HAR-11	HAR-14	HAR-15	PZ-105	PZ-106	PZ-109	PZ-122
Sample Port:		---	---	---	---	---	---	---	---
Sample Preparation:		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Type:		Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved
Geological Unit:		Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Lab Name:		Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:		09/04/2008	09/04/2008	08/21/2008	08/21/2008	09/09/2008	09/10/2008	09/09/2008	08/21/2008
Analyte (mg/L)	**MCL**								
Aluminum	0.2 SMCL	0.0802 U	0.0802 U	0.0802 U	0.0802 U	0.0802 U	0.0802 U	0.0802 U	0.0802 U
Antimony	0.006	0.0003 U	0.0022	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U
Arsenic	0.05	0.00095 U	0.0031	0.00095 U	0.0022	0.0015 J	0.00095 U	0.0016 J	0.00095 U
Barium	1	0.0656	0.137	0.0286	0.0191	0.014	0.078	0.0201	0.0496
Beryllium	0.004	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U
Boron	1 NL	0.242	---	---	---	0.153	0.133	0.135	0.219
Cadmium	0.005	0.00021 U	0.00021 U	0.00021 U	0.00021 U	0.00035 J	0.00021 U	0.00021 U	0.00021 U
Chromium	0.05	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U
Cobalt	NA	0.0021 U	0.0023 J	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U
Copper	1.3 RAL	0.00038 U	0.001 J	0.00038 U	0.00099 J	0.0139	0.0058	0.0149	0.0128
Hexavalent Chromium	0.05	0.00002 U	0.00002 U	0.00002 U	0.00002 U	---	---	---	---
Iron	0.30 SMCL	1.83	1.16	0.0522 U	0.0522 U	0.0522 U	0.0522 U	0.0522 U	0.0522 U
Lead	0.015 RAL	0.00005 U	0.00018 J	0.00005 U	0.00005 U	0.00029 J	0.00012 J	0.00028 J	0.000055 J
Magnesium	NA	23.1	---	---	---	18.2	15.3	27.5	21.5
Manganese	0.5 NL	0.219	2.29	0.00084 U	0.0457	0.0345	0.0133	0.0743	0.0092
Mercury	0.002	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.00006 U	0.000056 U	0.000056 U
Molybdenum	NA	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0261	0.0049 U	0.0887	0.0049 U
Nickel	0.1	0.0026	0.0063	0.0017 J	0.0022	0.0012 J	0.0443	0.001 J	0.0025
Selenium	0.05	0.0003 U	0.00033 J	0.0015 J	0.0003 U	0.0003 U	0.00036 J	0.0003 U	0.0003 U
Silver	0.1 SMCL	0.000037 U	0.000037 U	0.000037 U	0.000037 U	0.000037 U	0.000037 U	0.000037 U	0.000037 U
Strontium	NA	0.333	---	---	---	0.357	0.659	0.228	0.329
Thallium	0.002	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U
Tin	NA	0.0088 U	---	---	---	0.0088 U	0.0088 U	0.0088 U	0.0088 U
Vanadium	0.05 NL	0.0025 U	0.0034 J	0.0025 U	0.0025 U	0.003 J	0.0025 U	0.0027 J	0.0025 U
Zinc	5 SMCL	0.0711	0.161	0.0081 U	0.0081 U	0.0185 J	0.0081 U	0.0214	0.0129 J
Zirconium	NA	---	---	---	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VII
SUMMARY OF ANALYSES FOR METALS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		RS-28	HAR-07	HAR-16	HAR-18	RD-04	RD-09	RD-14	RD-19
Sample Port:		---	---	---	---	---	---	---	---
Sample Preparation:		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Type:		Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved
Geological Unit:		Shallow	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:		08/19/2008	08/27/2008	09/04/2008	08/28/2008	08/20/2008	08/20/2008	08/21/2008	08/11/2008
Analyte (mg/L)	**MCL**								
Aluminum	0.2 SMCL	---	0.0802 U	0.0802 U	0.0802 U	0.0802 U	0.0802 U	---	---
Antimony	0.006	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.00038 J	0.0003 U	0.0003 U	0.0003 U
Arsenic	0.05	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.0019 J	0.00095 U	0.00095 U	0.00095 U
Barium	1	0.0362	0.0245	0.0227	0.0266	0.0489	0.0418	0.0453	0.0809
Beryllium	0.004	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U
Boron	1 NL	---	0.0624	0.41	0.0439 J	0.0336 J	0.31	---	---
Cadmium	0.005	0.00023 J	0.00021 U	0.00021 U	0.00021 U	0.00071	0.00021 U	0.00021 U	0.00021 U
Chromium	0.05	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U
Cobalt	NA	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U
Copper	1.3 RAL	0.00056 J	0.0058	0.0019 J	0.0047	0.0116	0.0019 J	0.0029	0.0043
Hexavalent Chromium	0.05	---	---	---	---	---	---	---	---
Iron	0.30 SMCL	0.0522 U	0.0522 U	0.0522 U	0.0522 U	3	0.354	0.0653 J	0.0522 U
Lead	0.015 RAL	0.00005 U	0.0032	0.0014	0.00033 J	0.005	0.0013	0.00058 J	0.0018
Magnesium	NA	---	18.8	14.8	18.4	37.4	27.8	---	---
Manganese	0.5 NL	0.0024 J	0.33	0.00084 U	0.128	0.319	0.151	0.0456	0.0018 J
Mercury	0.002	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U
Molybdenum	NA	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U
Nickel	0.1	0.0005 U	0.002 J	0.0017 J	0.0005 U	0.0053	0.002	0.0005 U	0.0017 J
Selenium	0.05	0.0023	0.0003 U	0.0022	0.00046 J	0.0003 U	0.0003 U	0.00036 J	0.00094 J
Silver	0.1 SMCL	0.000037 U	0.000037 U	0.000037 U	0.000037 U	0.000037 U	0.000037 U	0.000037 U	0.000037 U
Strontium	NA	---	0.312	0.308	0.382	0.647	0.38	---	---
Thallium	0.002	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00029 J	0.00015 U	0.00015 U	0.00015 U
Tin	NA	---	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	---	---
Vanadium	0.05 NL	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0054	0.0025 U	0.0025 U	0.0025 U
Zinc	5 SMCL	0.0081 U	0.0475	0.991	0.0793	1.22	0.234	0.438	0.485
Zirconium	NA	---	---	---	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VII
SUMMARY OF ANALYSES FOR METALS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		RD-21	RD-22	RD-23	RD-27	RD-30	RD-33A	RD-33B	RD-34A
Sample Port:		Z3	Z2	Z2	---	---	Z2	---	---
Sample Preparation:		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Type:		Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:		08/06/2008	08/06/2008	08/07/2008	09/04/2008	08/13/2008	08/08/2008	08/07/2008	08/07/2008
Analyte (mg/L)	**MCL**								
Aluminum	0.2 SMCL	---	---	---	---	---	---	---	0.0802 U
Antimony	0.006	0.0003 U	0.0003 U	0.001	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U
Arsenic	0.05	0.0026	0.00095 U	0.0013 J	0.00095 U	0.00095 U	0.0014 J	0.00095 U	0.00095 U
Barium	1	0.0367	0.0457	0.0305	0.084	0.0421	0.0442	0.0539	0.0337
Beryllium	0.004	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00086	0.00013 U	0.00013 U	0.00013 U
Boron	1 NL	---	---	---	---	---	---	---	0.189
Cadmium	0.005	0.00021 U	0.00021 U	0.00021 U	0.00021 U	0.00021 U	0.00021 U	0.00021 U	0.00021 U
Chromium	0.05	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00091 J
Cobalt	NA	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U
Copper	1.3 RAL	0.002	0.00038 U	0.0014 J	0.00075 J	0.0014 J	0.0004 J	0.00086 J	0.0011 J
Hexavalent Chromium	0.05	---	---	---	---	---	---	---	---
Iron	0.30 SMCL	0.153 J	0.313	0.0522 U	0.0522 U	0.51	0.0522 U	0.589	0.0522 U
Lead	0.015 RAL	0.00049 J	0.00005 U	0.0071	0.0023	0.00018 J	0.00005 U	0.0011	0.00022 J
Magnesium	NA	---	---	---	---	---	---	---	45.1
Manganese	0.5 NL	0.012	0.0308	0.00084 U	0.0097	0.101	0.0142	0.121	0.0035 J
Mercury	0.002	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U
Molybdenum	NA	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U
Nickel	0.1	0.0017 J	0.0005 U	0.0034	0.0005 U	0.0012 J	0.0026	0.0005 U	0.0065
Selenium	0.05	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0013 J	0.0019 J	0.0003 U	0.0036
Silver	0.1 SMCL	0.000037 U	0.000037 U	0.000037 U	0.000037 U	0.00015 J	0.000037 U	0.000037 U	0.000037 U
Strontium	NA	---	---	---	---	---	---	---	0.292
Thallium	0.002	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U
Tin	NA	---	---	---	---	---	---	---	0.0088 U
Vanadium	0.05 NL	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
Zinc	5 SMCL	0.0126 J	0.0081 U	0.384	0.129	0.025	0.0081 U	0.871	0.103
Zirconium	NA	---	---	---	0.01 U	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VII
SUMMARY OF ANALYSES FOR METALS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		RD-46A	RD-54A	RD-54C	RD-55A	RD-57	RD-59A	RD-59B	RD-59C
Sample Port:		---	Z2	---	---	Z5	---	---	---
Sample Preparation:		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Type:		Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:		09/03/2008	08/07/2008	08/07/2008	08/26/2008	08/08/2008	08/14/2008	08/14/2008	08/14/2008
Analyte (mg/L)	**MCL**								
Aluminum	0.2 SMCL	0.19 J	---	---	0.124 J	---	---	---	---
Antimony	0.006	0.0003 U	0.0003 U	0.0003 U	0.00048 J	0.0039	0.0003 U	0.0003 U	0.0003 U
Arsenic	0.05	0.00095 U	0.0044	0.00095 U	0.00097 J	0.142	0.0018 J	0.00098 J	0.00095 U
Barium	1	0.0286	0.0381	0.0379	0.0439	0.0293	0.0512	0.0402	0.0478
Beryllium	0.004	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.0012	0.0008	0.00097
Boron	1 NL	0.112	---	---	0.0536	---	---	---	---
Cadmium	0.005	0.00021 U	0.00021 U	0.00021 U	0.00021 U	0.00021 U	0.00021 U	0.00021 U	0.00021 U
Chromium	0.05	0.00068 U	0.00068 U	0.00068 U	0.0082	0.0023	0.00068 U	0.00068 U	0.00068 U
Cobalt	NA	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U
Copper	1.3 RAL	0.002 J	0.00038 U	0.00038 U	0.133	0.00066 J	0.0026	0.00038 U	0.0023
Hexavalent Chromium	0.05	---	---	---	---	---	---	---	---
Iron	0.30 SMCL	1.59	0.186 J	1.41	2.76	1.07	0.0522 U	0.0522 U	0.0522 U
Lead	0.015 RAL	0.0017	0.00005 U	0.000098 J	0.0401	0.00005 U	0.0011	0.00024 J	0.00076 J
Magnesium	NA	37.7	---	---	16.8	---	---	---	---
Manganese	0.5 NL	0.0442	0.162	0.237	0.274	0.0993	0.362	0.0241	0.0182
Mercury	0.002	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U
Molybdenum	NA	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0083 J	0.0049 U	0.0049 U
Nickel	0.1	0.0005 U	0.0008 J	0.00075 J	0.0055	0.0037	0.0018 J	0.0005 U	0.0005 U
Selenium	0.05	0.0003 U	0.0003 U	0.0003 U	0.00095 J	0.0024	0.0003 U	0.0003 U	0.0003 U
Silver	0.1 SMCL	0.000037 U	0.000037 U	0.000037 U	0.000051 J	0.000037 U	0.000037 U	0.000037 U	0.000037 U
Strontium	NA	0.275	---	---	0.422	---	---	---	---
Thallium	0.002	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U
Tin	NA	0.0088 U	---	---	0.0088 U	---	---	---	---
Vanadium	0.05 NL	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
Zinc	5 SMCL	0.3	0.0094 J	0.704	0.705	0.0081 U	0.0371	0.0081 U	0.0081 U
Zirconium	NA	---	---	---	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VII
SUMMARY OF ANALYSES FOR METALS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		RD-60	RD-67	RD-67	RD-73	RD-85	RD-86	RD-98	RD-98
Sample Port:		---	---	---	---	---	---	---	---
Sample Preparation:		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Type:		Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Total
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:		08/13/2008	05/19/2008	09/03/2008	09/05/2008	09/04/2008	09/08/2008	06/26/2008	06/26/2008
Analyte (mg/L)	**MCL**								
Aluminum	0.2 SMCL	0.0802 U	---	---	0.0802 U	---	0.0802 U	0.0802 U	0.152 J
Antimony	0.006	0.0003 U	---	---	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U
Arsenic	0.05	0.0013 J	---	---	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U
Barium	1	0.0219	---	---	0.0589	0.0338	0.0319	0.0424	0.0442
Beryllium	0.004	0.0021	---	---	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U
Boron	1 NL	0.152	---	---	0.81	---	0.116	0.08	0.0813
Cadmium	0.005	0.00021 U	---	---	0.00021 U	0.00021 U	0.00021 U	0.00021 U	0.00021 U
Chromium	0.05	0.00068 U	---	---	0.00068 U	0.00068 U	0.00068 U	0.00068 U	0.00068 U
Cobalt	NA	0.0021 U	---	---	0.0021 U	0.0021 U	0.00092 U	0.0021 U	0.0021 U
Copper	1.3 RAL	0.0079	---	---	0.0016 J	0.00097 J	0.0104	0.00094 J	0.0015
Hexavalent Chromium	0.05	---	---	---	---	---	---	---	---
Iron	0.30 SMCL	0.0851 J	0.47	1.38	0.0692 J	0.087 J	0.185 J	---	---
Lead	0.015 RAL	0.0012	---	---	0.0008 J	0.0001 J	0.0009 J	0.00005 U	0.00017 J
Magnesium	NA	73.9	34.1	43.9	25.3	---	28.5	14.5	15.1
Manganese	0.5 NL	0.0255	0.0563	0.106	0.569	1.15	0.0061	---	---
Mercury	0.002	0.000056 U	---	---	0.000056 U	0.000056 U	0.000056 U	0.000056 U	0.000056 U
Molybdenum	NA	0.0049 U	---	---	0.0049 U	0.0049 U	0.0012 J	0.0049 U	0.0095 U
Nickel	0.1	0.0031	---	---	0.0034	0.0058	0.0049	0.0039 J	0.0041 J
Selenium	0.05	0.0037	---	---	0.00059 J	0.0003 U	0.00052 J	0.0012 J	0.0012 J
Silver	0.1 SMCL	0.000037 U	---	---	0.000037 U	0.000037 U	0.00014 J	0.000037 U	0.000051 J
Strontium	NA	0.468	0.312	0.398	0.502	---	0.364	0.208	0.209
Thallium	0.002	0.00015 U	---	---	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U
Tin	NA	0.0088 U	---	---	0.0088 U	---	0.0088 U	---	---
Vanadium	0.05 NL	0.0025 U	---	---	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
Zinc	5 SMCL	1.19	0.452	0.0439	1.19	0.0081 U	0.163	0.0098 J	0.0125 J
Zirconium	NA	---	---	---	---	---	---	0.01 U	0.01 U

See last page of table for notes and abbreviations.

TABLE VII
SUMMARY OF ANALYSES FOR METALS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		RD-98	RD-98	WS-09	WS-09A
Sample Port:		---	---	---	---
Sample Preparation:		Primary	Primary	Primary	Primary
Sample Type:		Dissolved	Total	Dissolved	Dissolved
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:		09/11/2008	09/11/2008	08/20/2008	08/20/2008
Analyte (mg/L)	**MCL**				
Aluminum	0.2 SMCL	---	---	0.0802 U	0.0802 U
Antimony	0.006	0.0003 U	0.0003 U	0.0003 U	0.0003 U
Arsenic	0.05	0.00095 U	0.00095 U	0.00095 U	0.0015 J
Barium	1	0.0417	0.0424	0.0373	0.0602
Beryllium	0.004	0.00013 U	0.00013 U	0.00013 U	0.00013 U
Boron	1 NL	---	---	0.0328 J	0.108
Cadmium	0.005	0.00021 U	0.00021 U	0.00021 U	0.00021 U
Chromium	0.05	0.00068 U	0.00068 U	0.0022	0.00068 U
Cobalt	NA	0.0021 U	0.0021 U	0.0021 U	0.0021 U
Copper	1.3 RAL	0.00056 J	0.003	0.001 J	0.00045 J
Hexavalent Chromium	0.05	---	---	---	---
Iron	0.30 SMCL	0.0803 J	0.0522 U	0.467	1.97
Lead	0.015 RAL	0.00012 J	0.00005 U	0.00034 J	0.00016 J
Magnesium	NA	15.1	---	44.2	24.7
Manganese	0.5 NL	0.0073	0.0058	0.0408	0.31
Mercury	0.002	0.000075 U	0.000056 U	0.000056 U	0.000056 U
Molybdenum	NA	0.0049 U	0.0049 U	0.0049 U	0.0049 U
Nickel	0.1	0.00082 J	0.00063 J	0.0062	0.002 J
Selenium	0.05	0.00047 J	0.00055 J	0.0003 U	0.0003 U
Silver	0.1 SMCL	0.000037 U	0.000037 U	0.000037 U	0.000037 U
Strontium	NA	---	---	0.763	0.573
Thallium	0.002	0.00015 U	0.00015 U	0.00015 U	0.00015 U
Tin	NA	---	---	0.0088 U	0.0088 U
Vanadium	0.05 NL	0.0025 U	0.0025 U	0.0025 U	0.0025 U
Zinc	5 SMCL	0.0093 J	0.0157 J	0.131	0.0081 U
Zirconium	NA	---	---	---	---

See last page of table for notes and abbreviations.

1. Lancaster = Lancaster Laboratories of Lancaster, Pennsylvania.

2. Chatsworth = Chatsworth Formation wells.
3. Shallow = Shallow wells and piezometers.

4. Dissolved = Dissolved metals. Dissolved metal samples were filtered using a 0.45 micron filter and preserved in the field.
5. Total = Total metals. Total metal samples were preserved in the field, but were not filtered.

6. --- = Analysis not performed.
7. mg/L = Milligrams per liter.

8. J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL), or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
9. U = Not detected.

10. MCL = Maximum Contaminant Level, California primary drinking water standard.
11. NA = Not available; no MCL promulgated.
12. SMCL = Secondary drinking water MCL.
13. RAL = Regulatory Action Level to be met at a customer tap.
14. NL = Advisory California Notification Level for unregulated chemical contaminants.

15. MCLs, SMCLs, RALs, and NLs are from the California Department of Public Health (2006, 2007b, 2007c).

16. Mercury was analyzed by EPA method 7470A.
Aluminum, barium, boron, cobalt, iron, magnesium, manganese, molybdenum, strontium, tin, vanadium, and zinc were analyzed by EPA method 6010B.
Hexavalent chromium was analyzed by Weck Laboratories of City of Industry, California using EPA method 7199.
All other metals were analyzed by EPA method 6020.

17. RD-67 metal results not reported in the second quarter 2008 report are included in this report.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**ES-21**	**HAR-11**	**HAR-14**	**HAR-15**	**PZ-025**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Shallow	Shallow	Shallow	Shallow	Shallow
Lab Name:		Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:		09/04/2008	09/04/2008	08/21/2008	08/21/2008	08/19/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	1 U	1 U	0.9 U	1 U	---
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	1 U	1 U	0.9 U	1 U	---
1,3-Dinitrobenzene	8270C, 8330	2 U	2 U	2 U	2 U	---
1-Methyl naphthalene	8310	---	---	---	---	0.24 U
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	1 U	1 U	0.9 U	1 U	---
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	1 U	1 U	0.9 U	1 U	---
2,4-Dimethylphenol	8270C	3 U	3 U	3 U	3 U	---
2,4-Dinitrophenol	8270C	19 U	20 U	19 U	21 U	---
2,4-Dinitrotoluene	8270C, 8330	1 U	1 U	0.9 U	1 U	---
2,6-Dinitrotoluene	8270C, 8330	1 U	1 U	0.9 U	1 U	---
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	2 U	2 U	2 U	2 U	---
2-Chlorophenol	8270C	1 U	1 U	0.9 U	1 U	---
2-Methylnaphthalene	8310	---	---	---	---	0.24 U
2-Nitrophenol	8270C	1 U	1 U	0.9 U	1 U	---
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	2 U	2 U	2 U	2 U	---
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	5 U	5 U	5 U	5 U	---
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	1 U	1 U	0.9 U	1 U	---
4-Chlorophenylphenyl ether	8270C	2 U	2 U	2 U	2 U	---
4-Nitrophenol	8270C	10 U	10 U	9 U	10 U	---
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.48 U
Acenaphthylene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.96 U
Anthracene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.019 U
Benzidine	8270C	19 U	20 U	19 U	21 U	---
Benzo(a)anthracene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.0096 U
Benzo(a)pyrene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.0096 U
Benzo(b)fluoranthene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.0077 U
Benzo(ghi)perylene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.058 U
Benzo(k)fluoranthene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.0077 U
bis(2-Chloroethoxy)methane	8270C	1 U	1 U	0.9 U	1 U	---
bis(2-Chloroethyl) ether	8270C	1 U	1 U	0.9 U	1 U	---
bis(2-Chloroisopropyl) ether	8270C	1 U	1 U	0.9 U	1 U	---
bis(2-Ethylhexyl) phthalate	8270C	2 U	2 U	2 U	2 U	---
Butyl benzyl phthalate	8270C	2 U	2 U	2 U	2 U	---
Chrysene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.039 U
Dibenzo(a,h)anthracene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.019 U
Diethyl phthalate	8270C	2 U	2 U	2 U	2 U	---
Dimethyl phthalate	8270C	2 U	2 U	2 U	2 U	---
Di-n-butyl phthalate	8270C	2 U	2 U	2 U	2 U	---
Di-n-octyl phthalate	8270C	2 U	2 U	2 U	2 U	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**ES-21**	**HAR-11**	**HAR-14**	**HAR-15**	**PZ-025**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Shallow	Shallow	Shallow	Shallow	Shallow
Lab Name:		Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:		09/04/2008	09/04/2008	08/21/2008	08/21/2008	08/19/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.019 U
Fluorene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.096 U
Hexachlorobenzene	8270C	1 U	1 U	0.9 U	1 U	---
Hexachlorobutadiene	8270C	1 U	1 U	0.9 U	1 U	---
Hexachloroethane	8270C	1 U	1 U	0.9 U	1 U	---
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.039 U
Isophorone	8270C	1 U	1 U	0.9 U	1 U	---
Naphthalene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.96 U
Nitrobenzene	8270C, 8330	1 U	1 U	0.9 U	1 U	---
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	1 U	1 U	0.9 U	1 U	---
n-Nitrosodimethylamine	8270C, 1625M	2 U	2 U	2 U	2 U	---
n-Nitrosodiphenylamine	8270C	2 U	2 U	2 U	2 U	---
p-Chloro-m-cresol	8270C	1 U	1 U	0.9 U	1 U	---
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	3 U	3 U	3 U	3 U	---
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	1 U	1 U	0.9 U	1 U	0.039 U
Phenol	8270C	1 U	1 U	0.9 U	1 U	---
Pyrene	8310	---	---	---	---	0.096 U
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**PZ-026**	**PZ-106**	**HAR-07**	**HAR-07**	**HAR-08**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Shallow	Shallow	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Lancaster	Weck	Lancaster
Collection Date:		09/10/2008	09/10/2008	08/27/2008	08/27/2008	08/27/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	---	1 U	1 U	---	1 U
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	---	1 U	1 U	---	1 U
1,3-Dinitrobenzene	8270C, 8330	---	2 U	2 U	---	2 U
1-Methyl naphthalene	8310	0.24 U	---	---	---	---
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	---	1 U	1 U	---	1 U
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	---	1 U	1 U	---	1 U
2,4-Dimethylphenol	8270C	---	3 U	3 U	---	3 U
2,4-Dinitrophenol	8270C	---	19 U	19 U	---	19 U
2,4-Dinitrotoluene	8270C, 8330	---	1 U	1 U	---	1 U
2,6-Dinitrotoluene	8270C, 8330	---	1 U	1 U	---	1 U
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	---	2 U	2 U	---	2 U
2-Chlorophenol	8270C	---	1 U	1 U	---	1 U
2-Methylnaphthalene	8310	0.24 U	---	---	---	---
2-Nitrophenol	8270C	---	1 U	1 U	---	1 U
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	---	2 U	2 U	---	2 U
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	---	5 U	5 U	---	5 U
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	---	1 U	1 U	---	1 U
4-Chlorophenylphenyl ether	8270C	---	2 U	2 U	---	2 U
4-Nitrophenol	8270C	---	10 U	10 U	---	10 U
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	0.49 U	1 U	1 U	---	1 U
Acenaphthylene	8270C, 8310	0.98 U	1 U	1 U	---	1 U
Anthracene	8270C, 8310	0.02 U	1 U	1 U	---	1 U
Benzidine	8270C	---	19 U	19 U	---	19 U
Benzo(a)anthracene	8270C, 8310	0.0098 U	1 U	1 U	---	1 U
Benzo(a)pyrene	8270C, 8310	0.0098 U	1 U	1 U	---	1 U
Benzo(b)fluoranthene	8270C, 8310	0.0078 U	1 U	1 U	---	1 U
Benzo(ghi)perylene	8270C, 8310	0.059 U	1 U	1 U	---	1 U
Benzo(k)fluoranthene	8270C, 8310	0.0078 U	1 U	1 U	---	1 U
bis(2-Chloroethoxy)methane	8270C	---	1 U	1 U	---	1 U
bis(2-Chloroethyl) ether	8270C	---	1 U	1 U	---	1 U
bis(2-Chloroisopropyl) ether	8270C	---	1 U	1 U	---	1 U
bis(2-Ethylhexyl) phthalate	8270C	---	2 U	2 U	---	2 U
Butyl benzyl phthalate	8270C	---	2 U	2 U	---	2 U
Chrysene	8270C, 8310	0.039 U	1 U	1 U	---	1 U
Dibenzo(a,h)anthracene	8270C, 8310	0.02 U	1 U	1 U	---	1 U
Diethyl phthalate	8270C	---	2 U	2 U	---	2 U
Dimethyl phthalate	8270C	---	2 U	2 U	---	2 U
Di-n-butyl phthalate	8270C	---	2 U	2 U	---	2 U
Di-n-octyl phthalate	8270C	---	2 U	2 U	---	2 U

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**PZ-026**	**PZ-106**	**HAR-07**	**HAR-07**	**HAR-08**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Shallow	Shallow	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Lancaster	Weck	Lancaster
Collection Date:		09/10/2008	09/10/2008	08/27/2008	08/27/2008	08/27/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	0.02 U	1 U	1 U	---	1 U
Fluorene	8270C, 8310	0.098 U	1 U	1 U	---	1 U
Hexachlorobenzene	8270C	---	1 U	1 U	---	1 U
Hexachlorobutadiene	8270C	---	1 U	1 U	---	1 U
Hexachloroethane	8270C	---	1 U	1 U	---	1 U
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	0.039 U	1 U	1 U	---	1 U
Isophorone	8270C	---	1 U	1 U	---	1 U
Naphthalene	8270C, 8310	0.98 U	1 U	1 U	---	1 U
Nitrobenzene	8270C, 8330	---	1 U	1 U	---	1 U
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	---	1 U	1 U	---	1 U
n-Nitrosodimethylamine	8270C, 1625M	---	2 U	2 U	0.034	2 U
n-Nitrosodiphenylamine	8270C	---	2 U	2 U	---	2 U
p-Chloro-m-cresol	8270C	---	1 U	1 U	---	1 U
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	---	3 U	3 U	---	3 U
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	0.039 U	1 U	1 U	---	1 U
Phenol	8270C	---	1 U	1 U	---	1 U
Pyrene	8310	0.098 U	---	---	---	---
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**HAR-08**	**HAR-18**	**HAR-18**	**HAR-20**	**HAR-20**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Weck	Lancaster	Weck	Lancaster	Weck
Collection Date:		08/27/2008	08/28/2008	08/28/2008	08/20/2008	08/20/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	---	1 U	---	1 U	---
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	---	1 U	---	1 U	---
1,3-Dinitrobenzene	8270C, 8330	---	2 U	---	2 U	---
1-Methyl naphthalene	8310	---	---	---	---	---
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	---	1 U	---	1 U	---
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	---	1 U	---	1 U	---
2,4-Dimethylphenol	8270C	---	3 U	---	3 U	---
2,4-Dinitrophenol	8270C	---	19 U	---	19 U	---
2,4-Dinitrotoluene	8270C, 8330	---	1 U	---	1 U	---
2,6-Dinitrotoluene	8270C, 8330	---	1 U	---	1 U	---
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	---	2 U	---	2 U	---
2-Chlorophenol	8270C	---	1 U	---	1 U	---
2-Methylnaphthalene	8310	---	---	---	---	---
2-Nitrophenol	8270C	---	1 U	---	1 U	---
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	---	2 U	---	2 U	---
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	---	5 U	---	5 U	---
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	---	1 U	---	1 U	---
4-Chlorophenylphenyl ether	8270C	---	2 U	---	2 U	---
4-Nitrophenol	8270C	---	10 U	---	10 U	---
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	---	1 U	---	1 U	---
Acenaphthylene	8270C, 8310	---	1 U	---	1 U	---
Anthracene	8270C, 8310	---	1 U	---	1 U	---
Benzidine	8270C	---	19 U	---	19 U	---
Benzo(a)anthracene	8270C, 8310	---	1 U	---	1 U	---
Benzo(a)pyrene	8270C, 8310	---	1 U	---	1 U	---
Benzo(b)fluoranthene	8270C, 8310	---	1 U	---	1 U	---
Benzo(ghi)perylene	8270C, 8310	---	1 U	---	1 U	---
Benzo(k)fluoranthene	8270C, 8310	---	1 U	---	1 U	---
bis(2-Chloroethoxy)methane	8270C	---	1 U	---	1 U	---
bis(2-Chloroethyl) ether	8270C	---	1 U	---	1 U	---
bis(2-Chloroisopropyl) ether	8270C	---	1 U	---	1 U	---
bis(2-Ethylhexyl) phthalate	8270C	---	2 U	---	2 U	---
Butyl benzyl phthalate	8270C	---	2 U	---	2 U	---
Chrysene	8270C, 8310	---	1 U	---	1 U	---
Dibenzo(a,h)anthracene	8270C, 8310	---	1 U	---	1 U	---
Diethyl phthalate	8270C	---	2 R	---	2 U	---
Dimethyl phthalate	8270C	---	2 R	---	2 U	---
Di-n-butyl phthalate	8270C	---	2 U	---	2 U	---
Di-n-octyl phthalate	8270C	---	2 U	---	2 U	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**HAR-08**	**HAR-18**	**HAR-18**	**HAR-20**	**HAR-20**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Weck	Lancaster	Weck	Lancaster	Weck
Collection Date:		08/27/2008	08/28/2008	08/28/2008	08/20/2008	08/20/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	---	1 U	---	1 U	---
Fluorene	8270C, 8310	---	1 U	---	1 U	---
Hexachlorobenzene	8270C	---	1 U	---	1 U	---
Hexachlorobutadiene	8270C	---	1 U	---	1 U	---
Hexachloroethane	8270C	---	1 U	---	1 U	---
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	---	1 U	---	1 U	---
Isophorone	8270C	---	1 U	---	1 U	---
Naphthalene	8270C, 8310	---	1 U	---	1 U	---
Nitrobenzene	8270C, 8330	---	1 U	---	1 U	---
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	---	1 U	---	1 U	---
n-Nitrosodimethylamine	8270C, 1625M	0.014	2 R	0.034 U	2 U	0.055 U
n-Nitrosodiphenylamine	8270C	---	2 U	---	2 U	---
p-Chloro-m-cresol	8270C	---	1 U	---	1 U	---
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	---	3 U	---	3 U	---
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	---	1 U	---	1 U	---
Phenol	8270C	---	1 U	---	1 U	---
Pyrene	8310	---	---	---	---	---
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**HAR-26**	**RD-01**	**RD-01**	**RD-04**	**RD-04**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Weck	Lancaster	Weck
Collection Date:		08/20/2008	08/28/2008	08/28/2008	08/20/2008	08/20/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	---	1 U	---	1 U	---
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	---	1 U	---	1 U	---
1,3-Dinitrobenzene	8270C, 8330	---	2 U	---	2 U	---
1-Methyl naphthalene	8310	0.24 U	---	---	---	---
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	---	1 U	---	1 U	---
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	---	1 U	---	1 U	---
2,4-Dimethylphenol	8270C	---	3 U	---	3 U	---
2,4-Dinitrophenol	8270C	---	19 U	---	19 U	---
2,4-Dinitrotoluene	8270C, 8330	---	1 U	---	1 U	---
2,6-Dinitrotoluene	8270C, 8330	---	1 U	---	1 U	---
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	---	2 U	---	2 U	---
2-Chlorophenol	8270C	---	1 U	---	1 U	---
2-Methylnaphthalene	8310	0.24 U	---	---	---	---
2-Nitrophenol	8270C	---	1 U	---	1 U	---
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	---	2 U	---	2 U	---
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	---	5 U	---	5 U	---
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	---	1 U	---	1 U	---
4-Chlorophenylphenyl ether	8270C	---	2 U	---	2 U	---
4-Nitrophenol	8270C	---	10 U	---	10 U	---
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	0.48 U	1 U	---	1 U	---
Acenaphthylene	8270C, 8310	0.96 U	1 U	---	1 U	---
Anthracene	8270C, 8310	0.021 J	1 U	---	1 U	---
Benzidine	8270C	---	19 U	---	19 U	---
Benzo(a)anthracene	8270C, 8310	0.0096 U	1 U	---	1 U	---
Benzo(a)pyrene	8270C, 8310	0.0096 U	1 U	---	1 U	---
Benzo(b)fluoranthene	8270C, 8310	0.0076 U	1 U	---	1 U	---
Benzo(ghi)perylene	8270C, 8310	0.057 U	1 U	---	1 U	---
Benzo(k)fluoranthene	8270C, 8310	0.0076 U	1 U	---	1 U	---
bis(2-Chloroethoxy)methane	8270C	---	1 U	---	1 U	---
bis(2-Chloroethyl) ether	8270C	---	1 U	---	1 U	---
bis(2-Chloroisopropyl) ether	8270C	---	1 U	---	1 U	---
bis(2-Ethylhexyl) phthalate	8270C	---	2 U	---	2 U	---
Butyl benzyl phthalate	8270C	---	2 U	---	2 U	---
Chrysene	8270C, 8310	0.038 U	1 U	---	1 U	---
Dibenzo(a,h)anthracene	8270C, 8310	0.019 U	1 U	---	1 U	---
Diethyl phthalate	8270C	---	2 R	---	2 U	---
Dimethyl phthalate	8270C	---	2 R	---	2 U	---
Di-n-butyl phthalate	8270C	---	2 U	---	2 U	---
Di-n-octyl phthalate	8270C	---	2 U	---	2 U	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**HAR-26**	**RD-01**	**RD-01**	**RD-04**	**RD-04**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Weck	Lancaster	Weck
Collection Date:		08/20/2008	08/28/2008	08/28/2008	08/20/2008	08/20/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	0.019 U	1 U	---	1 U	---
Fluorene	8270C, 8310	0.096 U	1 U	---	1 U	---
Hexachlorobenzene	8270C	---	1 U	---	1 U	---
Hexachlorobutadiene	8270C	---	1 U	---	1 U	---
Hexachloroethane	8270C	---	1 U	---	1 U	---
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	0.038 U	1 U	---	1 U	---
Isophorone	8270C	---	1 U	---	1 U	---
Naphthalene	8270C, 8310	0.96 U	1 U	---	1 U	---
Nitrobenzene	8270C, 8330	---	1 U	---	1 U	---
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	---	1 U	---	1 U	---
n-Nitrosodimethylamine	8270C, 1625M	---	2 R	0.02 U	2 U	0.005 U
n-Nitrosodiphenylamine	8270C	---	2 U	---	2 U	---
p-Chloro-m-cresol	8270C	---	1 U	---	1 U	---
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	---	3 U	---	3 U	---
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	0.038 U	1 U	---	1 U	---
Phenol	8270C	---	1 U	---	1 U	---
Pyrene	8310	0.096 U	---	---	---	---
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-08**	**RD-09**	**RD-09**	**RD-10**	**RD-10**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Weck	Lancaster	Weck
Collection Date:		09/04/2008	08/20/2008	08/20/2008	08/26/2008	08/26/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	---	1 U	---	1 U	---
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	---	1 U	---	1 U	---
1,3-Dinitrobenzene	8270C, 8330	---	2 U	---	2 U	---
1-Methyl naphthalene	8310	0.24 U	---	---	---	---
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	---	1 U	---	1 U	---
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	---	1 U	---	1 U	---
2,4-Dimethylphenol	8270C	---	3 U	---	3 U	---
2,4-Dinitrophenol	8270C	---	19 U	---	19 U	---
2,4-Dinitrotoluene	8270C, 8330	---	1 U	---	1 U	---
2,6-Dinitrotoluene	8270C, 8330	---	1 U	---	1 U	---
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	---	2 U	---	2 U	---
2-Chlorophenol	8270C	---	1 U	---	1 U	---
2-Methylnaphthalene	8310	0.24 U	---	---	---	---
2-Nitrophenol	8270C	---	1 U	---	1 U	---
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	---	2 U	---	2 U	---
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	---	5 U	---	5 U	---
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	---	1 U	---	1 U	---
4-Chlorophenylphenyl ether	8270C	---	2 U	---	2 U	---
4-Nitrophenol	8270C	---	10 U	---	10 U	---
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	0.48 U	1 U	---	1 U	---
Acenaphthylene	8270C, 8310	0.95 U	1 U	---	1 U	---
Anthracene	8270C, 8310	0.033 J	1 U	---	1 U	---
Benzidine	8270C	---	19 U	---	19 U	---
Benzo(a)anthracene	8270C, 8310	0.0095 U	1 U	---	1 U	---
Benzo(a)pyrene	8270C, 8310	0.0095 U	1 U	---	1 U	---
Benzo(b)fluoranthene	8270C, 8310	0.0076 U	1 U	---	1 U	---
Benzo(ghi)perylene	8270C, 8310	0.057 U	1 U	---	1 U	---
Benzo(k)fluoranthene	8270C, 8310	0.0076 U	1 U	---	1 U	---
bis(2-Chloroethoxy)methane	8270C	---	1 U	---	1 U	---
bis(2-Chloroethyl) ether	8270C	---	1 U	---	1 U	---
bis(2-Chloroisopropyl) ether	8270C	---	1 U	---	1 U	---
bis(2-Ethylhexyl) phthalate	8270C	---	3 J	---	2 U	---
Butyl benzyl phthalate	8270C	---	2 U	---	2 U	---
Chrysene	8270C, 8310	0.038 U	1 U	---	1 U	---
Dibenzo(a,h)anthracene	8270C, 8310	0.019 U	1 U	---	1 U	---
Diethyl phthalate	8270C	---	2 U	---	2 U	---
Dimethyl phthalate	8270C	---	2 U	---	2 U	---
Di-n-butyl phthalate	8270C	---	2 U	---	2 U	---
Di-n-octyl phthalate	8270C	---	2 U	---	2 U	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-08**	**RD-09**	**RD-09**	**RD-10**	**RD-10**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Weck	Lancaster	Weck
Collection Date:		09/04/2008	08/20/2008	08/20/2008	08/26/2008	08/26/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	0.019 U	1 U	---	1 U	---
Fluorene	8270C, 8310	0.095 U	1 U	---	1 U	---
Hexachlorobenzene	8270C	---	1 U	---	1 U	---
Hexachlorobutadiene	8270C	---	1 U	---	1 U	---
Hexachloroethane	8270C	---	1 U	---	1 U	---
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	0.038 U	1 U	---	1 U	---
Isophorone	8270C	---	1 U	---	1 U	---
Naphthalene	8270C, 8310	0.95 U	1 U	---	1 U	---
Nitrobenzene	8270C, 8330	---	1 U	---	1 U	---
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	---	1 U	---	1 U	---
n-Nitrosodimethylamine	8270C, 1625M	---	2 U	0.005 U	2 U	0.005 U
n-Nitrosodiphenylamine	8270C	---	2 U	---	2 U	---
p-Chloro-m-cresol	8270C	---	1 U	---	1 U	---
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	---	3 U	---	3 U	---
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	0.038 U	1 U	---	1 U	---
Phenol	8270C	---	1 U	---	1 U	---
Pyrene	8310	0.095 U	---	---	---	---
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-11**	**RD-12**	**RD-13**	**RD-13**	**RD-30**
Sample Type:		Primary	Primary	Primary	Duplicate	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Lancaster	Weck	Lancaster
Collection Date:		09/04/2008	09/04/2008	09/03/2008	09/03/2008	08/13/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	---	---	---	---	1 U
1,2-Dinitrobenzene	8330	---	---	0.2 U	---	---
1,2-Diphenylhydrazine	8270C	---	---	---	---	1 U
1,3-Dinitrobenzene	8270C, 8330	---	---	0.2 U	---	2 U
1-Methyl naphthalene	8310	0.25 U	0.24 U	---	---	---
1-Nitronaphthalene	8330	---	---	0.2 U	---	---
2,4,6-Trichlorophenol	8270C	---	---	---	---	1 U
2,4,6-Trinitrotoluene	8330	---	---	0.2 U	---	---
2,4-Dichlorophenol	8270C	---	---	---	---	1 U
2,4-Dimethylphenol	8270C	---	---	---	---	3 U
2,4-Dinitrophenol	8270C	---	---	---	---	20 U
2,4-Dinitrotoluene	8270C, 8330	---	---	0.2 U	---	1 U
2,6-Dinitrotoluene	8270C, 8330	---	---	0.2 U	---	1 U
2-Amino-4,6-Dinitrotoluene	8330	---	---	0.2 U	---	---
2-Chloronaphthalene	8270C	---	---	---	---	2 U
2-Chlorophenol	8270C	---	---	---	---	1 U
2-Methylnaphthalene	8310	0.25 U	0.24 U	---	---	---
2-Nitrophenol	8270C	---	---	---	---	1 U
2-Nitrotoluene	8330	---	---	0.2 U	---	---
3,3'-Dichlorobenzidine	8270C	---	---	---	---	2 U
3-Nitrotoluene	8330	---	---	0.4 U	---	---
4,6-Dinitro-o-cresol	8270C	---	---	---	---	5 U
4-Am-2,6-DNT	8330	---	---	0.3 U	---	---
4-Bromophenyl phenyl ether	8270C	---	---	---	---	1 U
4-Chlorophenylphenyl ether	8270C	---	---	---	---	2 U
4-Nitrophenol	8270C	---	---	---	---	10 U
4-Nitrotoluene	8330	---	---	0.6 U	---	---
Acenaphthene	8270C, 8310	0.5 U	0.49 U	---	---	1 U
Acenaphthylene	8270C, 8310	1 U	0.98 U	---	---	1 U
Anthracene	8270C, 8310	0.3 U	0.02 U	---	---	1 U
Benzidine	8270C	---	---	---	---	20 U
Benzo(a)anthracene	8270C, 8310	0.01 U	0.0098 U	---	---	1 U
Benzo(a)pyrene	8270C, 8310	0.01 U	0.0098 U	---	---	1 U
Benzo(b)fluoranthene	8270C, 8310	0.008 U	0.0078 U	---	---	1 U
Benzo(ghi)perylene	8270C, 8310	0.06 U	0.059 U	---	---	1 U
Benzo(k)fluoranthene	8270C, 8310	0.008 U	0.0078 U	---	---	1 U
bis(2-Chloroethoxy)methane	8270C	---	---	---	---	1 U
bis(2-Chloroethyl) ether	8270C	---	---	---	---	1 U
bis(2-Chloroisopropyl) ether	8270C	---	---	---	---	1 U
bis(2-Ethylhexyl) phthalate	8270C	---	---	---	---	2 U
Butyl benzyl phthalate	8270C	---	---	---	---	2 U
Chrysene	8270C, 8310	0.04 U	0.039 U	---	---	1 U
Dibenzo(a,h)anthracene	8270C, 8310	0.02 U	0.02 U	---	---	1 U
Diethyl phthalate	8270C	---	---	---	---	2 U
Dimethyl phthalate	8270C	---	---	---	---	2 U
Di-n-butyl phthalate	8270C	---	---	---	---	2 U
Di-n-octyl phthalate	8270C	---	---	---	---	2 U

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-11**	**RD-12**	**RD-13**	**RD-13**	**RD-30**
Sample Type:		Primary	Primary	Primary	Duplicate	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Lancaster	Weck	Lancaster
Collection Date:		09/04/2008	09/04/2008	09/03/2008	09/03/2008	08/13/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	0.02 U	0.02 U	---	---	1 U
Fluorene	8270C, 8310	0.1 U	0.098 U	---	---	1 U
Hexachlorobenzene	8270C	---	---	---	---	1 U
Hexachlorobutadiene	8270C	---	---	---	---	1 U
Hexachloroethane	8270C	---	---	---	---	1 U
HMX	8330	---	---	0.65 U	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	0.04 U	0.039 U	---	---	1 U
Isophorone	8270C	---	---	---	---	1 U
Naphthalene	8270C, 8310	1 U	0.98 U	---	---	1 U
Nitrobenzene	8270C, 8330	---	---	0.2 U	---	1 U
Nitroglycerin	8330	---	---	5.2 U	---	---
n-Nitrosodi-n-propylamine	8270C	---	---	---	---	1 U
n-Nitrosodimethylamine	8270C, 1625M	---	---	0.005 U	0.005 U	2 U
n-Nitrosodiphenylamine	8270C	---	---	---	---	2 U
p-Chloro-m-cresol	8270C	---	---	---	---	1 U
p-Dinitrobenzene	8330	---	---	0.2 U	---	---
Pentachlorophenol	8270C	---	---	---	---	3 U
PETN	8330	---	---	6 U	---	---
Phenanthrene	8270C, 8310	0.04 U	0.039 U	---	---	1 U
Phenol	8270C	---	---	---	---	1 U
Pyrene	8310	0.1 U	0.098 U	---	---	---
RDX	8330	---	---	0.2 U	---	---
sym-Trinitrobenzene	8330	---	---	0.2 U	---	---
Tetryl	8330	---	---	0.3 U	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-41A**	**RD-41A**	**RD-41B**	**RD-41B**	**RD-49A**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Weck	Lancaster	Weck	Lancaster
Collection Date:		08/28/2008	08/28/2008	08/28/2008	08/28/2008	09/02/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	1 U	---	1 U	---	10 U
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	1 U	---	1 U	---	10 U
1,3-Dinitrobenzene	8270C, 8330	2 U	---	2 U	---	19 U
1-Methyl naphthalene	8310	---	---	---	---	---
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	1 U	---	1 U	---	10 U
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	1 U	---	1 U	---	10 U
2,4-Dimethylphenol	8270C	3 U	---	3 U	---	29 U
2,4-Dinitrophenol	8270C	20 U	---	20 U	---	190 U
2,4-Dinitrotoluene	8270C, 8330	1 U	---	1 U	---	10 U
2,6-Dinitrotoluene	8270C, 8330	1 U	---	1 U	---	10 U
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	2 U	---	2 U	---	19 U
2-Chlorophenol	8270C	1 U	---	1 U	---	10 U
2-Methylnaphthalene	8310	---	---	---	---	---
2-Nitrophenol	8270C	1 U	---	1 U	---	10 U
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	2 U	---	2 U	---	19 U
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	5 U	---	5 U	---	48 U
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	1 U	---	1 U	---	10 U
4-Chlorophenylphenyl ether	8270C	2 U	---	2 U	---	19 U
4-Nitrophenol	8270C	10 U	---	10 U	---	96 U
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	1 U	---	1 U	---	10 U
Acenaphthylene	8270C, 8310	1 U	---	1 U	---	10 U
Anthracene	8270C, 8310	1 U	---	1 U	---	10 U
Benzidine	8270C	20 U	---	20 U	---	190 U
Benzo(a)anthracene	8270C, 8310	1 U	---	1 U	---	10 U
Benzo(a)pyrene	8270C, 8310	1 U	---	1 U	---	10 U
Benzo(b)fluoranthene	8270C, 8310	1 U	---	1 U	---	10 U
Benzo(ghi)perylene	8270C, 8310	1 U	---	1 U	---	10 U
Benzo(k)fluoranthene	8270C, 8310	1 U	---	1 U	---	10 U
bis(2-Chloroethoxy)methane	8270C	1 U	---	1 U	---	10 U
bis(2-Chloroethyl) ether	8270C	1 U	---	1 U	---	10 U
bis(2-Chloroisopropyl) ether	8270C	1 U	---	1 U	---	10 U
bis(2-Ethylhexyl) phthalate	8270C	2 U	---	2 U	---	160
Butyl benzyl phthalate	8270C	2 U	---	2 U	---	19 U
Chrysene	8270C, 8310	1 U	---	1 U	---	10 U
Dibenzo(a,h)anthracene	8270C, 8310	1 U	---	1 U	---	10 U
Diethyl phthalate	8270C	2 R	---	2 R	---	19 U
Dimethyl phthalate	8270C	2 R	---	2 R	---	19 U
Di-n-butyl phthalate	8270C	2 U	---	2 U	---	19 U
Di-n-octyl phthalate	8270C	2 U	---	2 U	---	19 U

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-41A**	**RD-41A**	**RD-41B**	**RD-41B**	**RD-49A**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Weck	Lancaster	Weck	Lancaster
Collection Date:		08/28/2008	08/28/2008	08/28/2008	08/28/2008	09/02/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	1 U	---	1 U	---	10 U
Fluorene	8270C, 8310	1 U	---	1 U	---	10 U
Hexachlorobenzene	8270C	1 U	---	1 U	---	10 U
Hexachlorobutadiene	8270C	1 U	---	1 U	---	10 U
Hexachloroethane	8270C	1 U	---	1 U	---	10 U
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	1 U	---	1 U	---	10 U
Isophorone	8270C	1 U	---	1 U	---	10 U
Naphthalene	8270C, 8310	1 U	---	1 U	---	10 U
Nitrobenzene	8270C, 8330	1 U	---	1 U	---	10 U
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	1 U	---	1 U	---	10 U
n-Nitrosodimethylamine	8270C, 1625M	2 R	0.005 U	2 R	0.005 U	19 U
n-Nitrosodiphenylamine	8270C	2 U	---	2 U	---	19 U
p-Chloro-m-cresol	8270C	1 U	---	1 U	---	10 U
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	3 U	---	3 U	---	29 U
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	1 U	---	1 U	---	10 U
Phenol	8270C	1 U	---	1 U	---	10 U
Pyrene	8310	---	---	---	---	---
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-49A**	**RD-49B**	**RD-49B**	**RD-49C**	**RD-49C**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Weck	Lancaster	Weck	Lancaster	Weck
Collection Date:		09/02/2008	08/27/2008	08/27/2008	08/19/2008	08/19/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	---	1 U	---	1 U	---
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	---	1 U	---	1 U	---
1,3-Dinitrobenzene	8270C, 8330	---	2 U	---	2 U	---
1-Methyl naphthalene	8310	---	---	---	---	---
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	---	1 U	---	1 U	---
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	---	1 U	---	1 U	---
2,4-Dimethylphenol	8270C	---	3 U	---	3 U	---
2,4-Dinitrophenol	8270C	---	19 U	---	19 U	---
2,4-Dinitrotoluene	8270C, 8330	---	1 U	---	1 U	---
2,6-Dinitrotoluene	8270C, 8330	---	1 U	---	1 U	---
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	---	2 U	---	2 U	---
2-Chlorophenol	8270C	---	1 U	---	1 U	---
2-Methylnaphthalene	8310	---	---	---	---	---
2-Nitrophenol	8270C	---	1 U	---	1 U	---
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	---	2 U	---	2 U	---
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	---	5 U	---	5 U	---
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	---	1 U	---	1 U	---
4-Chlorophenylphenyl ether	8270C	---	2 U	---	2 U	---
4-Nitrophenol	8270C	---	10 U	---	10 U	---
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	---	1 U	---	1 U	---
Acenaphthylene	8270C, 8310	---	1 U	---	1 U	---
Anthracene	8270C, 8310	---	1 U	---	1 U	---
Benzidine	8270C	---	19 U	---	19 U	---
Benzo(a)anthracene	8270C, 8310	---	1 U	---	1 U	---
Benzo(a)pyrene	8270C, 8310	---	1 U	---	1 U	---
Benzo(b)fluoranthene	8270C, 8310	---	1 U	---	1 U	---
Benzo(ghi)perylene	8270C, 8310	---	1 U	---	1 U	---
Benzo(k)fluoranthene	8270C, 8310	---	1 U	---	1 U	---
bis(2-Chloroethoxy)methane	8270C	---	1 U	---	1 U	---
bis(2-Chloroethyl) ether	8270C	---	1 U	---	1 U	---
bis(2-Chloroisopropyl) ether	8270C	---	1 U	---	1 U	---
bis(2-Ethylhexyl) phthalate	8270C	---	2 U	---	2 U	---
Butyl benzyl phthalate	8270C	---	2 U	---	2 U	---
Chrysene	8270C, 8310	---	1 U	---	1 U	---
Dibenzo(a,h)anthracene	8270C, 8310	---	1 U	---	1 U	---
Diethyl phthalate	8270C	---	2 U	---	2 U	---
Dimethyl phthalate	8270C	---	2 U	---	2 U	---
Di-n-butyl phthalate	8270C	---	2 U	---	2 U	---
Di-n-octyl phthalate	8270C	---	2 U	---	2 U	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-49A**	**RD-49B**	**RD-49B**	**RD-49C**	**RD-49C**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Weck	Lancaster	Weck	Lancaster	Weck
Collection Date:		09/02/2008	08/27/2008	08/27/2008	08/19/2008	08/19/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	---	1 U	---	1 U	---
Fluorene	8270C, 8310	---	1 U	---	1 U	---
Hexachlorobenzene	8270C	---	1 U	---	1 U	---
Hexachlorobutadiene	8270C	---	1 U	---	1 U	---
Hexachloroethane	8270C	---	1 U	---	1 U	---
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	---	1 U	---	1 U	---
Isophorone	8270C	---	1 U	---	1 U	---
Naphthalene	8270C, 8310	---	1 U	---	1 U	---
Nitrobenzene	8270C, 8330	---	1 U	---	1 U	---
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	---	1 U	---	1 U	---
n-Nitrosodimethylamine	8270C, 1625M	0.005 U	2 U	0.038	2 U	0.006 U
n-Nitrosodiphenylamine	8270C	---	2 U	---	2 U	---
p-Chloro-m-cresol	8270C	---	1 U	---	1 U	---
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	---	3 U	---	3 U	---
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	---	1 U	---	1 U	---
Phenol	8270C	---	1 U	---	1 U	---
Pyrene	8310	---	---	---	---	---
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-51B**	**RD-51B**	**RD-51C**	**RD-51C**	**RD-55A**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Weck	Lancaster	Weck	Lancaster
Collection Date:		08/19/2008	08/19/2008	08/26/2008	08/26/2008	08/26/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	1 U	---	1 U	---	1 U
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	1 U	---	1 U	---	1 U
1,3-Dinitrobenzene	8270C, 8330	2 U	---	2 U	---	2 U
1-Methyl naphthalene	8310	---	---	---	---	---
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	1 U	---	1 U	---	1 U
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	1 U	---	1 U	---	1 U
2,4-Dimethylphenol	8270C	3 U	---	3 U	---	3 U
2,4-Dinitrophenol	8270C	19 U	---	20 U	---	19 U
2,4-Dinitrotoluene	8270C, 8330	1 U	---	1 U	---	1 U
2,6-Dinitrotoluene	8270C, 8330	1 U	---	1 U	---	1 U
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	2 U	---	2 U	---	2 U
2-Chlorophenol	8270C	1 U	---	1 U	---	1 U
2-Methylnaphthalene	8310	---	---	---	---	---
2-Nitrophenol	8270C	1 U	---	1 U	---	1 U
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	2 U	---	2 U	---	2 U
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	5 U	---	5 U	---	5 U
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	1 U	---	1 U	---	1 U
4-Chlorophenylphenyl ether	8270C	2 U	---	2 U	---	2 U
4-Nitrophenol	8270C	10 U	---	10 U	---	10 U
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	1 U	---	1 U	---	1 U
Acenaphthylene	8270C, 8310	1 U	---	1 U	---	1 U
Anthracene	8270C, 8310	1 U	---	1 U	---	1 U
Benzidine	8270C	19 U	---	20 U	---	19 U
Benzo(a)anthracene	8270C, 8310	1 U	---	1 U	---	1 U
Benzo(a)pyrene	8270C, 8310	1 U	---	1 U	---	1 U
Benzo(b)fluoranthene	8270C, 8310	1 U	---	1 U	---	1 U
Benzo(ghi)perylene	8270C, 8310	1 U	---	1 U	---	1 U
Benzo(k)fluoranthene	8270C, 8310	1 U	---	1 U	---	1 U
bis(2-Chloroethoxy)methane	8270C	1 U	---	1 U	---	1 U
bis(2-Chloroethyl) ether	8270C	1 U	---	1 U	---	1 U
bis(2-Chloroisopropyl) ether	8270C	1 U	---	1 U	---	1 U
bis(2-Ethylhexyl) phthalate	8270C	2 U	---	2 U	---	2 U
Butyl benzyl phthalate	8270C	2 U	---	2 U	---	2 U
Chrysene	8270C, 8310	1 U	---	1 U	---	1 U
Dibenzo(a,h)anthracene	8270C, 8310	1 U	---	1 U	---	1 U
Diethyl phthalate	8270C	2 U	---	2 U	---	2 U
Dimethyl phthalate	8270C	2 U	---	2 U	---	2 U
Di-n-butyl phthalate	8270C	2 U	---	2 U	---	2 U
Di-n-octyl phthalate	8270C	2 U	---	2 U	---	2 U

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-51B**	**RD-51B**	**RD-51C**	**RD-51C**	**RD-55A**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Weck	Lancaster	Weck	Lancaster
Collection Date:		08/19/2008	08/19/2008	08/26/2008	08/26/2008	08/26/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	1 U	---	1 U	---	1 U
Fluorene	8270C, 8310	1 U	---	1 U	---	1 U
Hexachlorobenzene	8270C	1 U	---	1 U	---	1 U
Hexachlorobutadiene	8270C	1 U	---	1 U	---	1 U
Hexachloroethane	8270C	1 U	---	1 U	---	1 U
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	1 U	---	1 U	---	1 U
Isophorone	8270C	1 U	---	1 U	---	1 U
Naphthalene	8270C, 8310	1 U	---	1 U	---	1 U
Nitrobenzene	8270C, 8330	1 U	---	1 U	---	1 U
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	1 U	---	1 U	---	1 U
n-Nitrosodimethylamine	8270C, 1625M	2 U	0.005 U	2 U	0.005 U	2 U
n-Nitrosodiphenylamine	8270C	2 U	---	2 U	---	2 U
p-Chloro-m-cresol	8270C	1 U	---	1 U	---	1 U
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	3 U	---	3 U	---	3 U
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	1 U	---	1 U	---	1 U
Phenol	8270C	1 U	---	1 U	---	1 U
Pyrene	8310	---	---	---	---	---
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-55A**	**RD-55B**	**RD-55B**	**RD-58A**	**RD-58A**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Weck	Lancaster	Weck	Lancaster	Weck
Collection Date:		08/26/2008	08/27/2008	08/27/2008	09/02/2008	09/02/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	---	1 U	---	1 U	---
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	---	1 U	---	1 U	---
1,3-Dinitrobenzene	8270C, 8330	---	2 U	---	2 U	---
1-Methyl naphthalene	8310	---	---	---	---	---
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	---	1 U	---	1 U	---
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	---	1 U	---	1 U	---
2,4-Dimethylphenol	8270C	---	3 U	---	3 U	---
2,4-Dinitrophenol	8270C	---	19 U	---	20 U	---
2,4-Dinitrotoluene	8270C, 8330	---	1 U	---	1 U	---
2,6-Dinitrotoluene	8270C, 8330	---	1 U	---	1 U	---
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	---	2 U	---	2 U	---
2-Chlorophenol	8270C	---	1 U	---	1 U	---
2-Methylnaphthalene	8310	---	---	---	---	---
2-Nitrophenol	8270C	---	1 U	---	1 U	---
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	---	2 U	---	2 U	---
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	---	5 U	---	5 U	---
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	---	1 U	---	1 U	---
4-Chlorophenylphenyl ether	8270C	---	2 U	---	2 U	---
4-Nitrophenol	8270C	---	10 U	---	10 U	---
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	---	1 U	---	1 U	---
Acenaphthylene	8270C, 8310	---	1 U	---	1 U	---
Anthracene	8270C, 8310	---	1 U	---	1 U	---
Benzidine	8270C	---	19 U	---	20 U	---
Benzo(a)anthracene	8270C, 8310	---	1 U	---	1 U	---
Benzo(a)pyrene	8270C, 8310	---	1 U	---	1 U	---
Benzo(b)fluoranthene	8270C, 8310	---	1 U	---	1 U	---
Benzo(ghi)perylene	8270C, 8310	---	1 U	---	1 U	---
Benzo(k)fluoranthene	8270C, 8310	---	1 U	---	1 U	---
bis(2-Chloroethoxy)methane	8270C	---	1 U	---	1 U	---
bis(2-Chloroethyl) ether	8270C	---	1 U	---	1 U	---
bis(2-Chloroisopropyl) ether	8270C	---	1 U	---	1 U	---
bis(2-Ethylhexyl) phthalate	8270C	---	2 U	---	2 U	---
Butyl benzyl phthalate	8270C	---	2 U	---	2 U	---
Chrysene	8270C, 8310	---	1 U	---	1 U	---
Dibenzo(a,h)anthracene	8270C, 8310	---	1 U	---	1 U	---
Diethyl phthalate	8270C	---	2 U	---	2 U	---
Dimethyl phthalate	8270C	---	2 U	---	2 U	---
Di-n-butyl phthalate	8270C	---	2 U	---	2 U	---
Di-n-octyl phthalate	8270C	---	2 U	---	2 U	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-55A**	**RD-55B**	**RD-55B**	**RD-58A**	**RD-58A**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Weck	Lancaster	Weck	Lancaster	Weck
Collection Date:		08/26/2008	08/27/2008	08/27/2008	09/02/2008	09/02/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	---	1 U	---	1 U	---
Fluorene	8270C, 8310	---	1 U	---	1 U	---
Hexachlorobenzene	8270C	---	1 U	---	1 U	---
Hexachlorobutadiene	8270C	---	1 U	---	1 U	---
Hexachloroethane	8270C	---	1 U	---	1 U	---
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	---	1 U	---	1 U	---
Isophorone	8270C	---	1 U	---	1 U	---
Naphthalene	8270C, 8310	---	1 U	---	1 U	---
Nitrobenzene	8270C, 8330	---	1 U	---	1 U	---
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	---	1 U	---	1 U	---
n-Nitrosodimethylamine	8270C, 1625M	0.005 U	2 U	0.005 U	2 U	0.005 U
n-Nitrosodiphenylamine	8270C	---	2 U	---	2 U	---
p-Chloro-m-cresol	8270C	---	1 U	---	1 U	---
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	---	3 U	---	3 U	---
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	---	1 U	---	1 U	---
Phenol	8270C	---	1 U	---	1 U	---
Pyrene	8310	---	---	---	---	---
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-58B**	**RD-58B**	**RD-67**	**RD-67**	**RD-67**
Sample Type:		Primary	Primary	Primary	Primary	Duplicate
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Weck	Lancaster	Weck	Weck
Collection Date:		08/21/2008	08/21/2008	09/03/2008	09/03/2008	09/03/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	1 U	---	1 U	---	---
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	1 U	---	1 U	---	---
1,3-Dinitrobenzene	8270C, 8330	2 U	---	2 U	---	---
1-Methyl naphthalene	8310	---	---	---	---	---
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	1 U	---	1 U	---	---
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	1 U	---	1 U	---	---
2,4-Dimethylphenol	8270C	3 U	---	3 U	---	---
2,4-Dinitrophenol	8270C	20 U	---	19 U	---	---
2,4-Dinitrotoluene	8270C, 8330	1 U	---	1 U	---	---
2,6-Dinitrotoluene	8270C, 8330	1 U	---	1 U	---	---
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	2 U	---	2 U	---	---
2-Chlorophenol	8270C	1 U	---	1 U	---	---
2-Methylnaphthalene	8310	---	---	---	---	---
2-Nitrophenol	8270C	1 U	---	1 U	---	---
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	2 U	---	2 U	---	---
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	5 U	---	5 U	---	---
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	1 U	---	1 U	---	---
4-Chlorophenylphenyl ether	8270C	2 U	---	2 U	---	---
4-Nitrophenol	8270C	10 U	---	10 U	---	---
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	1 U	---	1 U	---	---
Acenaphthylene	8270C, 8310	1 U	---	1 U	---	---
Anthracene	8270C, 8310	1 U	---	1 U	---	---
Benzidine	8270C	20 U	---	19 U	---	---
Benzo(a)anthracene	8270C, 8310	1 U	---	1 U	---	---
Benzo(a)pyrene	8270C, 8310	1 U	---	1 U	---	---
Benzo(b)fluoranthene	8270C, 8310	1 U	---	1 U	---	---
Benzo(ghi)perylene	8270C, 8310	1 U	---	1 U	---	---
Benzo(k)fluoranthene	8270C, 8310	1 U	---	1 U	---	---
bis(2-Chloroethoxy)methane	8270C	1 U	---	1 U	---	---
bis(2-Chloroethyl) ether	8270C	1 U	---	1 U	---	---
bis(2-Chloroisopropyl) ether	8270C	1 U	---	1 U	---	---
bis(2-Ethylhexyl) phthalate	8270C	2 U	---	7	---	---
Butyl benzyl phthalate	8270C	2 U	---	2 U	---	---
Chrysene	8270C, 8310	1 U	---	1 U	---	---
Dibenzo(a,h)anthracene	8270C, 8310	1 U	---	1 U	---	---
Diethyl phthalate	8270C	2 U	---	2 U	---	---
Dimethyl phthalate	8270C	2 U	---	2 U	---	---
Di-n-butyl phthalate	8270C	2 U	---	2 U	---	---
Di-n-octyl phthalate	8270C	2 U	---	2 U	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-58B**	**RD-58B**	**RD-67**	**RD-67**	**RD-67**
Sample Type:		Primary	Primary	Primary	Primary	Duplicate
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Weck	Lancaster	Weck	Weck
Collection Date:		08/21/2008	08/21/2008	09/03/2008	09/03/2008	09/03/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	1 U	---	1 U	---	---
Fluorene	8270C, 8310	1 U	---	1 U	---	---
Hexachlorobenzene	8270C	1 U	---	1 U	---	---
Hexachlorobutadiene	8270C	1 U	---	1 U	---	---
Hexachloroethane	8270C	1 U	---	1 U	---	---
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	1 U	---	1 U	---	---
Isophorone	8270C	1 U	---	1 U	---	---
Naphthalene	8270C, 8310	1 U	---	1 U	---	---
Nitrobenzene	8270C, 8330	1 U	---	1 U	---	---
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	1 U	---	1 U	---	---
n-Nitrosodimethylamine	8270C, 1625M	2 U	0.005 U	2 U	0.005 U	0.005 U
n-Nitrosodiphenylamine	8270C	2 U	---	2 U	---	---
p-Chloro-m-cresol	8270C	1 U	---	1 U	---	---
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	3 U	---	3 U	---	---
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	1 U	---	1 U	---	---
Phenol	8270C	1 U	---	1 U	---	---
Pyrene	8310	---	---	---	---	---
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-98**	**RD-98**	**WS-05**	**WS-05**	**WS-06**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Lancaster	Weck	Lancaster
Collection Date:		06/26/2008	09/11/2008	08/21/2008	08/21/2008	09/09/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	1 U	1 U	1 U	---	1 U
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	1 U	1 U	1 U	---	1 U
1,3-Dinitrobenzene	8270C, 8330	2 U	2 U	2 U	---	2 U
1-Methyl naphthalene	8310	---	---	---	---	---
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	1 U	1 U	1 U	---	1 U
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	1 U	1 U	1 U	---	1 U
2,4-Dimethylphenol	8270C	3 U	3 U	3 U	---	3 U
2,4-Dinitrophenol	8270C	19 U	20 U	19 U	---	19 U
2,4-Dinitrotoluene	8270C, 8330	1 U	1 U	1 U	---	1 U
2,6-Dinitrotoluene	8270C, 8330	1 U	1 U	1 U	---	1 U
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	2 U	2 U	2 U	---	2 U
2-Chlorophenol	8270C	1 U	1 U	1 U	---	1 U
2-Methylnaphthalene	8310	---	---	---	---	---
2-Nitrophenol	8270C	1 U	1 U	1 U	---	1 U
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	2 U	2 U	2 U	---	2 U
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	5 U	5 U	5 U	---	5 U
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	1 U	1 U	1 U	---	1 U
4-Chlorophenylphenyl ether	8270C	2 U	2 U	2 U	---	2 U
4-Nitrophenol	8270C	10 U	10 U	10 U	---	10 U
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	1 U	1 U	1 U	---	1 U
Acenaphthylene	8270C, 8310	1 U	1 U	1 U	---	1 U
Anthracene	8270C, 8310	1 U	1 U	1 U	---	1 U
Benzidine	8270C	19 U	20 U	19 U	---	19 U
Benzo(a)anthracene	8270C, 8310	1 U	1 U	1 U	---	1 U
Benzo(a)pyrene	8270C, 8310	1 U	1 U	1 U	---	1 U
Benzo(b)fluoranthene	8270C, 8310	1 U	1 U	1 U	---	1 U
Benzo(ghi)perylene	8270C, 8310	1 U	1 U	1 U	---	1 U
Benzo(k)fluoranthene	8270C, 8310	1 U	1 U	1 U	---	1 U
bis(2-Chloroethoxy)methane	8270C	1 U	1 U	1 U	---	1 U
bis(2-Chloroethyl) ether	8270C	1 U	1 U	1 U	---	1 U
bis(2-Chloroisopropyl) ether	8270C	1 U	1 U	1 U	---	1 U
bis(2-Ethylhexyl) phthalate	8270C	2 U	2 U	2 U	---	2 U
Butyl benzyl phthalate	8270C	2 U	2 U	2 U	---	2 U
Chrysene	8270C, 8310	1 U	1 U	1 U	---	1 U
Dibenzo(a,h)anthracene	8270C, 8310	1 U	1 U	1 U	---	1 U
Diethyl phthalate	8270C	2 U	2 U	2 U	---	2 U
Dimethyl phthalate	8270C	2 U	2 U	2 U	---	2 U
Di-n-butyl phthalate	8270C	2 U	2 U	2 U	---	2 U
Di-n-octyl phthalate	8270C	2 U	2 U	2 U	---	2 U

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**RD-98**	**RD-98**	**WS-05**	**WS-05**	**WS-06**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Lancaster	Weck	Lancaster
Collection Date:		06/26/2008	09/11/2008	08/21/2008	08/21/2008	09/09/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	1 U	1 U	1 U	---	1 U
Fluorene	8270C, 8310	1 U	1 U	1 U	---	1 U
Hexachlorobenzene	8270C	1 U	1 U	1 U	---	1 U
Hexachlorobutadiene	8270C	1 U	1 U	1 U	---	1 U
Hexachloroethane	8270C	1 U	1 U	1 U	---	1 U
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	1 U	1 U	1 U	---	1 U
Isophorone	8270C	1 U	1 U	1 U	---	1 U
Naphthalene	8270C, 8310	1 U	1 U	1 U	---	1 U
Nitrobenzene	8270C, 8330	1 U	1 U	1 U	---	1 U
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	1 U	1 U	1 U	---	1 U
n-Nitrosodimethylamine	8270C, 1625M	2 U	2 U	2 U	0.005 U	2 U
n-Nitrosodiphenylamine	8270C	2 U	2 U	2 U	---	2 U
p-Chloro-m-cresol	8270C	1 U	1 U	1 U	---	1 U
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	3 U	3 U	3 U	---	3 U
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	1 U	1 U	1 U	---	1 U
Phenol	8270C	1 U	1 U	1 U	---	1 U
Pyrene	8310	---	---	---	---	---
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**WS-06**	**WS-09**	**WS-09**	**WS-09A**	**WS-09A**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Weck	Lancaster	Weck
Collection Date:		09/09/2008	08/20/2008	08/20/2008	08/20/2008	08/20/2008
Analyte (ug/L)						
1,2,4-Trichlorobenzene	8270C	---	1 U	---	0.9 U	---
1,2-Dinitrobenzene	8330	---	---	---	---	---
1,2-Diphenylhydrazine	8270C	---	1 U	---	0.9 U	---
1,3-Dinitrobenzene	8270C, 8330	---	2 U	---	2 U	---
1-Methyl naphthalene	8310	---	---	---	---	---
1-Nitronaphthalene	8330	---	---	---	---	---
2,4,6-Trichlorophenol	8270C	---	1 U	---	0.9 U	---
2,4,6-Trinitrotoluene	8330	---	---	---	---	---
2,4-Dichlorophenol	8270C	---	1 U	---	0.9 U	---
2,4-Dimethylphenol	8270C	---	3 U	---	3 U	---
2,4-Dinitrophenol	8270C	---	19 U	---	19 U	---
2,4-Dinitrotoluene	8270C, 8330	---	1 U	---	0.9 U	---
2,6-Dinitrotoluene	8270C, 8330	---	1 U	---	0.9 U	---
2-Amino-4,6-Dinitrotoluene	8330	---	---	---	---	---
2-Chloronaphthalene	8270C	---	2 U	---	2 U	---
2-Chlorophenol	8270C	---	1 U	---	0.9 U	---
2-Methylnaphthalene	8310	---	---	---	---	---
2-Nitrophenol	8270C	---	1 U	---	0.9 U	---
2-Nitrotoluene	8330	---	---	---	---	---
3,3'-Dichlorobenzidine	8270C	---	2 U	---	2 U	---
3-Nitrotoluene	8330	---	---	---	---	---
4,6-Dinitro-o-cresol	8270C	---	5 U	---	5 U	---
4-Am-2,6-DNT	8330	---	---	---	---	---
4-Bromophenyl phenyl ether	8270C	---	1 U	---	0.9 U	---
4-Chlorophenylphenyl ether	8270C	---	2 U	---	2 U	---
4-Nitrophenol	8270C	---	10 U	---	9 U	---
4-Nitrotoluene	8330	---	---	---	---	---
Acenaphthene	8270C, 8310	---	1 U	---	0.9 U	---
Acenaphthylene	8270C, 8310	---	1 U	---	0.9 U	---
Anthracene	8270C, 8310	---	1 U	---	0.9 U	---
Benzidine	8270C	---	19 U	---	19 U	---
Benzo(a)anthracene	8270C, 8310	---	1 U	---	0.9 U	---
Benzo(a)pyrene	8270C, 8310	---	1 U	---	0.9 U	---
Benzo(b)fluoranthene	8270C, 8310	---	1 U	---	0.9 U	---
Benzo(ghi)perylene	8270C, 8310	---	1 U	---	0.9 U	---
Benzo(k)fluoranthene	8270C, 8310	---	1 U	---	0.9 U	---
bis(2-Chloroethoxy)methane	8270C	---	1 U	---	0.9 U	---
bis(2-Chloroethyl) ether	8270C	---	1 U	---	0.9 U	---
bis(2-Chloroisopropyl) ether	8270C	---	1 U	---	0.9 U	---
bis(2-Ethylhexyl) phthalate	8270C	---	2 U	---	2 U	---
Butyl benzyl phthalate	8270C	---	2 U	---	2 U	---
Chrysene	8270C, 8310	---	1 U	---	0.9 U	---
Dibenzo(a,h)anthracene	8270C, 8310	---	1 U	---	0.9 U	---
Diethyl phthalate	8270C	---	2 U	---	2 U	---
Dimethyl phthalate	8270C	---	2 U	---	2 U	---
Di-n-butyl phthalate	8270C	---	2 U	---	2 U	---
Di-n-octyl phthalate	8270C	---	2 U	---	2 U	---

See last page of table for notes and abbreviations.

TABLE VIII
SUMMARY OF ANALYSES FOR SEMI-VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**WS-06**	**WS-09**	**WS-09**	**WS-09A**	**WS-09A**
Sample Type:		Primary	Primary	Primary	Primary	Primary
Geological Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		Lancaster	Lancaster	Weck	Lancaster	Weck
Collection Date:		09/09/2008	08/20/2008	08/20/2008	08/20/2008	08/20/2008
Analyte (ug/L)						
Fluoranthene	8270C, 8310	---	1 U	---	0.9 U	---
Fluorene	8270C, 8310	---	1 U	---	0.9 U	---
Hexachlorobenzene	8270C	---	1 U	---	0.9 U	---
Hexachlorobutadiene	8270C	---	1 U	---	0.9 U	---
Hexachloroethane	8270C	---	1 U	---	0.9 U	---
HMX	8330	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	8270C, 8310	---	1 U	---	0.9 U	---
Isophorone	8270C	---	1 U	---	0.9 U	---
Naphthalene	8270C, 8310	---	1 U	---	0.9 U	---
Nitrobenzene	8270C, 8330	---	1 U	---	0.9 U	---
Nitroglycerin	8330	---	---	---	---	---
n-Nitrosodi-n-propylamine	8270C	---	1 U	---	0.9 U	---
n-Nitrosodimethylamine	8270C, 1625M	0.005 U	2 U	0.005 U	2 U	0.005 U
n-Nitrosodiphenylamine	8270C	---	2 U	---	2 U	---
p-Chloro-m-cresol	8270C	---	1 U	---	0.9 U	---
p-Dinitrobenzene	8330	---	---	---	---	---
Pentachlorophenol	8270C	---	3 U	---	3 U	---
PETN	8330	---	---	---	---	---
Phenanthrene	8270C, 8310	---	1 U	---	0.9 U	---
Phenol	8270C	---	1 U	---	0.9 U	---
Pyrene	8310	---	---	---	---	---
RDX	8330	---	---	---	---	---
sym-Trinitrobenzene	8330	---	---	---	---	---
Tetryl	8330	---	---	---	---	---

See last page of table for notes and abbreviations.

1. Lancaster = Lancaster Laboratories of Lancaster, Pennsylvania.

2. Weck = Weck Laboratories of City of Industry, California.

3. Chatsworth = Chatsworth Formation wells.

4. Shallow = Shallow wells and piezometers.

5. ug/L = Micrograms per liter.

6. J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL), or concentration estimated due to analytical quality control deficiencies. (see Appendix A for details).

7. R = Rejected result (see Appendix A for details).

8. U = Not detected.

9. UJ = Not detected. Estimated detection limit as a result of analytical quality control deficiencies (see Appendix A for details).

10. Semi-volatile organic compounds were analyzed by EPA method 8270C.
Polynuclear aromatic hydrocarbons (PAHs) were analyzed by EPA method 8310.
Nitroaromatics/nitramines were analyzed by EPA method 8330.
Low-level n-Nitrosodimethylamine was analyzed by EPA method 1625M.

11. 8270C, 8310 = Method 8270C was used for all well samples with the following exceptions, which were analyzed by method 8310: HAR-26, RD-08, RD-11, RD-12, PZ-025, and PZ-026.

12. 8270C, 8330 = Method 8270C was used for all well samples with the following exceptions, which were analyzed by method 8330: HAR-26, RD-08, RD-11, RD-12, PZ-025, and PZ-026.

13. 8270C, 1625M = Method 8270C was used by Lancaster Laboratories.
Method 1625M was used by Weck Laboratories.

TABLE IX

SUMMARY OF ANALYSES FOR PERCHLORATE, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte:				**Perchlorate**
Method:				**314.0**
Result Value Units:				**ug/L**
Well Identifier	**Sample Type**	**Lab Name**	**Date Collected**	
Piezometers				
PZ-108	Primary	Lancaster	08/20/2008	0.7 U
PZ-121	Primary	Lancaster	08/20/2008	0.7 U
PZ-122	Primary	Lancaster	08/21/2008	0.7 U
Chatsworth Formation Wells				
HAR-08	Primary	Lancaster	08/27/2008	0.7 U
HAR-07	Primary	Lancaster	08/27/2008	0.7 U
HAR-18	Primary	Lancaster	08/28/2008	0.7 U
HAR-18	Duplicate	Lancaster	08/28/2008	0.7 U
HAR-20	Primary	Lancaster	08/20/2008	0.7 U
HAR-24	Primary	Lancaster	08/11/2008	189 J
HAR-24	Split	TA-Denver	08/11/2008	190
HAR-25	Primary	Lancaster	08/11/2008	27.6 J
HAR-25	Split	TA-Denver	08/11/2008	31
OS-09	Primary	Lancaster	08/14/2008	0.7 U
OS-09	Duplicate	Lancaster	08/14/2008	0.7 U
OS-16	Primary	Lancaster	09/08/2008	0.7 U
OS-17	Primary	Lancaster	08/12/2008	0.7 U
OS-25	Primary	Lancaster	09/09/2008	0.7 U
RD-01	Primary	Lancaster	08/28/2008	0.7 U
RD-04	Primary	Lancaster	08/20/2008	0.7 U
RD-09	Primary	Lancaster	08/20/2008	0.7 U
RD-10	Primary	Lancaster	08/26/2008	53.9
RD-13	Primary	Lancaster	09/03/2008	0.7 U
RD-37	Primary	Lancaster	09/09/2008	0.7 U
RD-37	Duplicate	Lancaster	09/09/2008	0.7 U
RD-41A	Primary	Lancaster	08/28/2008	0.7 U
RD-41B	Primary	Lancaster	08/28/2008	0.7 U
RD-49A	Primary	Lancaster	09/02/2008	0.7 U
RD-49B	Primary	Lancaster	08/27/2008	0.7 U
RD-49C	Primary	Lancaster	08/19/2008	0.7 UJ
RD-51B	Primary	Lancaster	08/19/2008	0.7 UJ
RD-51C	Primary	Lancaster	08/26/2008	0.7 U
RD-55A	Primary	Lancaster	08/26/2008	0.7 U
RD-55B	Primary	Lancaster	08/27/2008	0.7 U
RD-58A	Primary	Lancaster	09/02/2008	0.7 U
RD-58B	Primary	Lancaster	08/21/2008	0.7 U
RD-73	Primary	Lancaster	09/05/2008	90
RD-73	Split	TA-Denver	09/05/2008	120
RD-98	Primary	Lancaster	06/26/2008	0.7 UJ
RD-98	Primary	Lancaster	09/11/2008	0.7 U
WS-05	Primary	Lancaster	08/21/2008	0.7 U
WS-06	Primary	Lancaster	09/09/2008	0.7 U
WS-09	Primary	Lancaster	08/20/2008	0.7 U
WS-09A	Primary	Lancaster	08/20/2008	0.7 U
WS-09A	Duplicate	Lancaster	08/20/2008	0.7 U

See last page of table for notes and abbreviations.

TABLE IX
NOTES AND ABBREVIATIONS

1.	Lancaster	=	Lancaster Laboratories of Lancaster, Pennsylvania.
2.	TA-Denver	=	TestAmerica of Arvada, Colorado.
3.	ug/L	=	Micrograms per liter.
4.	J	=	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL), or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
5.	U	=	Not detected.
6.	UJ	=	Not detected. Estimated detection limit as a result of analytical quality control deficiencies (see Appendix A for details).

TABLE X

SUMMARY OF ANALYSES FOR CONSTITUENTS OF CONCERN AND PERCHLORATE, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:			**PZ-025**	**PZ-026**	**HAR-07**	**HAR-08**	**HAR-18**	**HAR-18**	**HAR-20**	**HAR-26**
Geological Unit:			Shallow	Shallow	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Sample Type:			Primary	Primary	Primary	Primary	Primary	Duplicate	Primary	Primary
Lab Name:			Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:			08/19/2008	09/10/2008	08/27/2008	08/27/2008	08/28/2008	08/28/2008	08/20/2008	08/20/2008
Analyte	**Units**	**MCL**								
Organic Constituents and Perchlorate										
1,1,1-Trichloroethane	ug/L	200	---	---	4 U	0.1 U	1.1 J	---	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	1200	---	---	10 U	0.2 U	550	---	0.4 J	0.2 U
1,1,2-Trichloroethane	ug/L	5	---	---	4 U	0.1 U	1 U	---	0.1 U	0.1 U
1,1-Dichloroethane	ug/L	5	---	---	5 U	0.1 U	3.9 J	---	0.1 U	0.1 U
1,1-Dichloroethene	ug/L	6	---	---	7 J	0.1 U	60	---	0.7	0.1 U
1,2-Dichloroethane	ug/L	0.5	---	---	3 U	0.1 U	1 U	---	0.1 U	0.1 U
1,3-Dinitrobenzene	ug/L	NA	---	---	2 U	2 U	2 U	---	2 U	---
1,4-Dioxane	ug/L	3 NL	---	---	1 U	1 J	8.4	---	2.9	---
Acetone	ug/L	NA	---	---	30 U	3 J	30 U	---	3 U	3 U
Benzene	ug/L	1	---	---	3 U	0.1 U	1 U	---	0.1 U	0.1 U
Carbon Tetrachloride	ug/L	0.5	---	---	3 U	0.1 U	1 U	---	0.1 U	0.1 U
Chloroform	ug/L	NA	---	---	4 U	0.1 U	1 U	---	0.1 U	0.1 U
cis-1,2-Dichloroethene	ug/L	6	---	---	2300	13	910	---	130	0.1 U
Ethylbenzene	ug/L	300	---	---	4 U	0.4 J	1 U	---	0.1 U	0.1 U
Methyl ethyl ketone	ug/L	NA	---	---	15 U	1 U	10 U	---	1 U	1 U
Methylene chloride	ug/L	5	---	---	10 U	0.2 U	2 U	---	0.2 U	0.2 U
m-Xylene & p-Xylene	ug/L	1750 total	---	---	4 U	1.5	1 U	---	0.1 U	0.1 U
Nitrobenzene	ug/L	NA	---	---	1 U	1 U	1 U	---	1 U	---
n-Nitrosodimethylamine	ug/L	0.01 NL	---	---	0.034	0.014	0.034 U	---	0.055 U	---
o-Xylene	ug/L	1750 total	---	---	4 U	1.2	1 U	---	0.1 U	0.1 U
Perchlorate	ug/L	6	---	---	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	---
Tetrachloroethene	ug/L	5	---	---	4 U	0.1 U	2.2 J	---	0.1 U	0.1 U
Toluene	ug/L	150	---	---	4 U	0.5	1 U	---	0.1 U	0.1 U
trans-1,2-Dichloroethene	ug/L	10	---	---	110	1.2	15	---	12	0.1 U
Trichloroethene	ug/L	5	---	---	4100	1	1400	---	310	0.1 U
Trichlorofluoromethane	ug/L	150	---	---	3 U	0.1 U	1 U	---	0.1 U	0.1 U
Vinyl chloride	ug/L	0.5	---	---	53	2.6	72	---	1.2	0.1 U
Naturally Occurring Constituents										
Ammonia-N	mg/L	NA	---	---	0.22	0.03 U	0.03 U	---	0.3 U	---
Fluoride	mg/L	2	---	---	0.39	0.33	0.34	---	0.26	---
Formaldehyde	ug/L	100 NL	10 U	10 U	12 U	18 U	11 U	---	10 J	10 U
Nitrate-NO3	mg/L	45	---	---	0.42 J	0.22 U	27	---	0.22 U	---

See last page of table for notes and abbreviations.

TABLE X

SUMMARY OF ANALYSES FOR CONSTITUENTS OF CONCERN AND PERCHLORATE, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:			**RD-01**	**RD-04**	**RD-08**	**RD-09**	**RD-10**	**RD-11**	**RD-12**	**RD-13**
Geological Unit:			Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Sample Type:			Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Lab Name:			Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:			08/28/2008	08/20/2008	09/04/2008	08/20/2008	08/26/2008	09/04/2008	09/04/2008	09/03/2008
Analyte	**Units**	**MCL**								
Organic Constituents and Perchlorate										
1,1,1-Trichloroethane	ug/L	200	0.8 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	1200	2 U	2 U	---	1 U	0.2 U	---	---	0.2 U
1,1,2-Trichloroethane	ug/L	5	0.8 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
1,1-Dichloroethane	ug/L	5	1 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
1,1-Dichloroethene	ug/L	6	3 J	1.9 J	---	0.6 J	0.1 J	---	---	0.1 U
1,2-Dichloroethane	ug/L	0.5	0.5 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
1,3-Dinitrobenzene	ug/L	NA	2 U	2 U	---	2 U	2 U	---	---	0.2 U
1,4-Dioxane	ug/L	3 NL	1.7 J	0.7 J	---	2.5 U	0.6 J	---	---	---
Acetone	ug/L	NA	6 U	30 U	---	15 U	3 U	---	---	3 U
Benzene	ug/L	1	0.5 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
Carbon Tetrachloride	ug/L	0.5	0.5 U	1 U	---	0.5 U	0.1 J	---	---	0.1 U
Chloroform	ug/L	NA	0.8 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
cis-1,2-Dichloroethene	ug/L	6	670	180	---	69	11	---	---	0.1 U
Ethylbenzene	ug/L	300	0.8 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
Methyl ethyl ketone	ug/L	NA	3 U	10 U	---	5 U	1 U	---	---	1 U
Methylene chloride	ug/L	5	2 U	2 U	---	1 U	0.2 U	---	---	0.2 U
m-Xylene & p-Xylene	ug/L	1750 total	0.8 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
Nitrobenzene	ug/L	NA	1 U	1 U	---	1 U	1 U	---	---	0.2 U
n-Nitrosodimethylamine	ug/L	0.01 NL	0.02 U	0.005 U	---	0.005 U	0.005 U	---	---	0.005 U
o-Xylene	ug/L	1750 total	0.8 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
Perchlorate	ug/L	6	0.7 U	0.7 U	---	0.7 U	53.9	---	---	0.7 U
Tetrachloroethene	ug/L	5	0.8 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
Toluene	ug/L	150	0.7 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
trans-1,2-Dichloroethene	ug/L	10	30	6.2	---	15	0.8	---	---	0.1 U
Trichloroethene	ug/L	5	640	2300	---	360	15	---	---	0.4 J
Trichlorofluoromethane	ug/L	150	0.5 U	1 U	---	0.5 U	0.1 U	---	---	0.1 U
Vinyl chloride	ug/L	0.5	30	1 U	---	0.5 J	0.1 J	---	---	0.1 U
Naturally Occurring Constituents										
Ammonia-N	mg/L	NA	0.03 U	0.03 U	---	0.03 U	0.03 U	---	---	---
Fluoride	mg/L	2	0.31	0.3	---	0.22	0.41	---	---	---
Formaldehyde	ug/L	100 NL	68	51	13 U	19 J	10 U	10 U	10 U	10 U
Nitrate-NO3	mg/L	45	1.7	0.22 U	---	0.37 J	0.85	---	---	---

See last page of table for notes and abbreviations.

TABLE X

SUMMARY OF ANALYSES FOR CONSTITUENTS OF CONCERN AND PERCHLORATE, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:			**RD-13**	**RD-41A**	**RD-41B**	**RD-49A**	**RD-49B**	**RD-49C**	**RD-51B**	**RD-51C**
Geological Unit:			Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Sample Type:			Duplicate	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Lab Name:			Weck	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:			09/03/2008	08/28/2008	08/28/2008	09/02/2008	08/27/2008	08/19/2008	08/19/2008	08/26/2008
Analyte	**Units**	**MCL**								
Organic Constituents and Perchlorate										
1,1,1-Trichloroethane	ug/L	200	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	1200	---	0.2 U	4 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	ug/L	5	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	ug/L	5	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	ug/L	6	---	0.1 U	3 J	1.5 J	0.8	0.3 J	0.1 U	0.1 U
1,2-Dichloroethane	ug/L	0.5	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,3-Dinitrobenzene	ug/L	NA	---	2 U	2 U	19 U	2 U	2 U	2 U	2 U
1,4-Dioxane	ug/L	3 NL	---	0.5 U	1.1 J	0.5 U	2.1	0.9 J	0.5 U	0.5 U
Acetone	ug/L	NA	---	3 U	60 U	30 U	3 U	3 U	3 U	3 U
Benzene	ug/L	1	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
Carbon Tetrachloride	ug/L	0.5	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	ug/L	NA	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
cis-1,2-Dichloroethene	ug/L	6	---	7.3	680	980	250	80	11	0.1 U
Ethylbenzene	ug/L	300	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methyl ethyl ketone	ug/L	NA	---	1 U	20 U	10 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/L	5	---	0.2 U	4 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
m-Xylene & p-Xylene	ug/L	1750 total	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrobenzene	ug/L	NA	---	1 U	1 U	10 U	1 U	1 U	1 U	1 U
n-Nitrosodimethylamine	ug/L	0.01 NL	0.005 U	0.005 U	0.005 U	0.005 U	0.038	0.006 U	0.005 U	0.005 U
o-Xylene	ug/L	1750 total	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
Perchlorate	ug/L	6	---	0.7 U	0.7 U	0.7 U	0.7 U	0.7 UJ	0.7 UJ	0.7 U
Tetrachloroethene	ug/L	5	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
Toluene	ug/L	150	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	ug/L	10	---	2.6	37	18	16	4.2	1.1	0.1 U
Trichloroethene	ug/L	5	---	3.4	1300	1100	260	15	4.5	0.1 J
Trichlorofluoromethane	ug/L	150	---	0.1 U	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl chloride	ug/L	0.5	---	1.4	18	1.1 J	3.7	2	8.4	0.1 U
Naturally Occurring Constituents										
Ammonia-N	mg/L	NA	---	0.03 U	0.03 U	0.031 J	0.03 U	0.054 U	0.03 U	0.038 U
Fluoride	mg/L	2	---	0.28	0.27	0.29	0.27	0.38	0.4	0.29
Formaldehyde	ug/L	100 NL	---	34 U	15 U	52	12 U	36 J	35 J	10 U
Nitrate-NO3	mg/L	45	---	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U

See last page of table for notes and abbreviations.

TABLE X

SUMMARY OF ANALYSES FOR CONSTITUENTS OF CONCERN AND PERCHLORATE, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:			**RD-51C**	**RD-51C**	**RD-55A**	**RD-55B**	**RD-55B**	**RD-58A**	**RD-58A**	**RD-58B**
Geological Unit:			Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Sample Type:			Duplicate	Split	Primary	Primary	Field Duplicate	Primary	Duplicate	Primary
Lab Name:			Lancaster	TA - Denver	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:			08/26/2008	08/26/2008	08/26/2008	08/27/2008	08/27/2008	09/02/2008	09/02/2008	08/21/2008
Analyte	**Units**	**MCL**								
Organic Constituents and Perchlorate										
1,1,1-Trichloroethane	ug/L	200	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	1200	0.2 U	0.79 U	0.2 U	0.2 U	0.2 U	4.9	4.9	0.2 U
1,1,2-Trichloroethane	ug/L	5	0.1 U	0.32 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	ug/L	5	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	ug/L	6	0.1 U	0.14 U	0.2 J	0.3 J	0.3 J	0.1 U	0.1 U	0.1 U
1,2-Dichloroethane	ug/L	0.5	0.1 U	0.13 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,3-Dinitrobenzene	ug/L	NA	---	---	2 U	2 U	---	2 U	---	2 U
1,4-Dioxane	ug/L	3 NL	---	---	0.5 U	0.5 U	---	0.5 U	---	0.6 J
Acetone	ug/L	NA	3 U	1.9 U	3 U	87	84	3 U	3 U	3 U
Benzene	ug/L	1	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Carbon Tetrachloride	ug/L	0.5	0.1 U	0.19 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	ug/L	NA	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
cis-1,2-Dichloroethene	ug/L	6	0.1 U	0.15 U	31	15	15	7.6	7.6	0.1 U
Ethylbenzene	ug/L	300	0.1 U	0.16 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methyl ethyl ketone	ug/L	NA	1 U	1.8 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/L	5	0.2 U	0.41 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m-Xylene & p-Xylene	ug/L	1750 total	0.1 U	0.34 U	0.1 U	0.3 J	0.3 J	0.1 U	0.1 U	0.1 U
Nitrobenzene	ug/L	NA	---	---	1 U	1 U	---	1 U	---	1 U
n-Nitrosodimethylamine	ug/L	0.01 NL	---	---	0.005 U	0.005 U	---	0.005 U	---	0.005 U
o-Xylene	ug/L	1750 total	0.1 U	0.19 U	0.1 U	0.2 J	0.2 J	0.1 U	0.1 U	0.1 U
Perchlorate	ug/L	6	---	---	0.7 U	0.7 U	---	0.7 U	---	0.7 U
Tetrachloroethene	ug/L	5	0.1 U	0.2 U	0.1 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Toluene	ug/L	150	0.1 U	0.17 U	0.1 U	0.9	0.9	0.1 U	0.1 U	0.3 J
trans-1,2-Dichloroethene	ug/L	10	0.1 U	0.15 U	1.9	0.1 J	0.1 J	0.1 U	0.1 U	0.1 U
Trichloroethene	ug/L	5	0.1 J	0.16 U	23	21	21	93	97	0.1 U
Trichlorofluoromethane	ug/L	150	0.1 U	0.29 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl chloride	ug/L	0.5	0.1 U	0.4 U	4.3	0.1 J	0.1 J	0.1 U	0.1 U	0.1 U
Naturally Occurring Constituents										
Ammonia-N	mg/L	NA	---	---	0.03 U	0.076 J	---	0.03 U	---	0.03 U
Fluoride	mg/L	2	---	---	0.46	0.64	---	0.44	---	0.53
Formaldehyde	ug/L	100 NL	---	---	13 J	25 U	---	36 J	---	25 J
Nitrate-NO3	mg/L	45	---	---	9.1	0.22 U	---	0.22 U	---	0.22 U

See last page of table for notes and abbreviations.

TABLE X

SUMMARY OF ANALYSES FOR CONSTITUENTS OF CONCERN AND PERCHLORATE, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:			**RD-67**	**RD-67**	**WS-05**	**WS-06**	**WS-06**	**WS-09**	**WS-09A**	**WS-09A**
Geological Unit:			Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Sample Type:			Primary	Duplicate	Primary	Primary	Duplicate	Primary	Primary	Duplicate
Lab Name:			Lancaster	Weck	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:			09/03/2008	09/03/2008	08/21/2008	09/09/2008	09/09/2008	08/20/2008	08/20/2008	08/20/2008
Analyte	**Units**	**MCL**								
Organic Constituents and Perchlorate										
1,1,1-Trichloroethane	ug/L	200	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	1200	0.2 U	---	0.2 U	0.2 U	0.2 U	20 U	0.2 U	0.2 U
1,1,2-Trichloroethane	ug/L	5	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
1,1-Dichloroethane	ug/L	5	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
1,1-Dichloroethene	ug/L	6	0.1 U	---	0.1 U	0.4 J	0.3 J	11 J	0.1 J	0.1 J
1,2-Dichloroethane	ug/L	0.5	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
1,3-Dinitrobenzene	ug/L	NA	2 U	---	2 U	2 U	---	2 U	2 U	---
1,4-Dioxane	ug/L	3 NL	0.5 U	---	2.4	0.9 J	---	2.5	0.5 U	---
Acetone	ug/L	NA	3 U	---	3 U	3 U	3 U	300 U	3 U	3 J
Benzene	ug/L	1	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
Carbon Tetrachloride	ug/L	0.5	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
Chloroform	ug/L	NA	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
cis-1,2-Dichloroethene	ug/L	6	0.1 U	---	1.5	130	130	700	18	20
Ethylbenzene	ug/L	300	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
Methyl ethyl ketone	ug/L	NA	1 U	---	1 U	1 U	1 U	100 U	1 U	1 U
Methylene chloride	ug/L	5	0.2 U	---	0.2 U	0.2 U	0.2 U	20 U	0.2 U	0.2 U
m-Xylene & p-Xylene	ug/L	1750 total	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
Nitrobenzene	ug/L	NA	1 U	---	1 U	1 U	---	1 U	0.9 U	---
n-Nitrosodimethylamine	ug/L	0.01 NL	0.005 U	0.005 U	0.005 U	0.005 U	---	0.005 U	0.005 U	---
o-Xylene	ug/L	1750 total	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
Perchlorate	ug/L	6	---	---	0.7 U	0.7 U	---	0.7 U	0.7 U	0.7 U
Tetrachloroethene	ug/L	5	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
Toluene	ug/L	150	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.2 J
trans-1,2-Dichloroethene	ug/L	10	0.1 U	---	0.2 J	12	12	18 J	1.4	1.6
Trichloroethene	ug/L	5	0.1 U	---	0.7	5.1	5.3	16000	4.1	4.1
Trichlorofluoromethane	ug/L	150	0.1 U	---	0.1 U	0.1 U	0.1 U	10 U	0.1 U	0.1 U
Vinyl chloride	ug/L	0.5	0.1 U	---	0.1 J	6.7	6.8	10 U	0.2 J	0.2 J
Naturally Occurring Constituents										
Ammonia-N	mg/L	NA	0.03 U	---	0.03 U	0.032 J	---	0.03 U	0.03 U	---
Fluoride	mg/L	2	0.87	---	0.35	0.28	---	0.31	0.32	---
Formaldehyde	ug/L	100 NL	35 J	---	17 J	10 U	---	21 J	86	---
Nitrate-NO3	mg/L	45	0.22 U	---	0.22 U	0.22 U	---	0.31 J	0.22 U	---

See last page of table for notes and abbreviations.

1. Lancaster = Lancaster Laboratories of Lancaster, Pennsylvania.
2. TA-Denver = TestAmerica of Arvada, Colorado.
3. Weck = Weck Laboratories of City of Industry, California.
4. Chatsworth = Chatsworth Formation wells.
5. Shallow = Shallow wells and piezometers.
6. NA = Not applicable; no MCL promulgated.
7. NL = Advisory California Notification Level for unregulated chemical contaminants.
8. MCL = Maximum Contaminant Level, California primary drinking water standard.
9. mg/L = Milligrams per liter.
10. ug/L = Micrograms per liter.
11. --- = Analysis not performed.

12 Total = MCL for sum of xylene isomers.

13. J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL), or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).

14. U = Not detected.

15. UJ = Not detected. Estimated detection limit as a result of analytical quality control deficiencies (see Appendix A for details).

16. Low level N-nitrosodimethylamine (NDMA) analyses were performed using EPA method 1625M on primary and duplicate samples by Weck Laboratories.

17. Low level 1,4-dioxane analyses were performed on primary samples by Lancaster Laboratories using modified EPA method 8260SIM.

18. Ammonia-N, fluoride, formaldehyde, and nitrate-NO3 analyses were performed using EPA methods 350.3, 300.0, 8315A, and 300.0, respectively, by Lancaster Laboratories.

19. Perchlorate analyses were performed on primary and duplicate samples by Lancaster Laboratories.

20. Semi-volatile organic compounds 1,3-dinitrobenzene and nitrobenzene were analyzed using EPA method 8270C by Lancaster Laboratories.

21. Constituents were analyzed using EPA method 8260B unless otherwise stated.

22. MCLs and NLs are from the California Department of Public Health (2007b, 2007c).

TABLE XI
SUMMARY OF ANALYSES FOR INORGANIC CONSTITUENTS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:			**PZ-005**	**PZ-103**	**PZ-106**	**PZ-108**	**PZ-109**	**PZ-121**	**PZ-122**
Geological Unit:			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Sample Type:			Primary	Primary	Primary	Primary	Primary	Primary	Primary
Lab Name:			Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:			08/21/2008	08/19/2008	09/10/2008	08/20/2008	09/09/2008	08/20/2008	08/21/2008
Analyte	**Result Value Units**	**MCL**							
Alkalinity as CaCO3	mg/L	NA	---	---	---	---	---	---	---
Bicarbonate	mg/L	NA	---	---	---	---	---	---	---
Bromide	mg/L	NA	0.77	0.46 J	0.4 U	0.59	0.89	0.45 J	0.51
Calcium, Dissolved	mg/L	NA	---	---	---	---	---	---	---
Carbonate	mg/L	NA	---	---	---	---	---	---	---
Chloride	mg/L	250, 500, 600 SMCL	80.3	174	59.2	70.4	59.7	41.9	36.1
Fluoride	mg/L	2	0.59	0.41	0.24	0.9	1	0.64	0.44
Magnesium, Dissolved	mg/L	NA	---	---	---	---	---	---	---
Nitrate-NO3	mg/L	45	71	0.22 U	24	14	6.7	42	13
pH	pH Units	6.5-8.5 SMCL	---	---	---	---	---	---	7.2
Potassium, Dissolved	mg/L	NA	---	---	---	---	---	---	---
Sodium, Dissolved	mg/L	NA	---	---	---	---	---	---	---
Sodium, Total	mg/L	NA	---	---	---	---	---	---	---
Specific Conductivity	umhos/cm	900, 1600, 2200 SMCL	---	---	---	---	---	---	---
Sulfate	mg/L	250, 500, 600 SMCL	144	96.6	113	171	140	129	100
Total Dissolved Solids	mg/L	500, 1000, 1500 SMCL	---	---	---	---	---	---	---
Turbidity	NTU	5 SMCL	---	---	---	---	---	---	---
Delta Deuterium	per mil	NA	---	---	---	---	---	---	---
Delta Oxygen-18	per mil	NA	---	---	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE XI
SUMMARY OF ANALYSES FOR INORGANIC CONSTITUENTS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:			**HAR-24**	**HAR-25**	**OS-09**	**OS-25**	**RD-37**	**RD-67**	**RD-73**
Geological Unit:			Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Sample Type:			Primary	Primary	Primary	Primary	Primary	Primary	Primary
Lab Name:			Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster	Lancaster
Collection Date:			08/11/2008	08/11/2008	08/14/2008	09/09/2008	09/09/2008	09/03/2008	09/05/2008
Analyte	**Result Value Units**	**MCL**							
Alkalinity as CaCO3	mg/L	NA	---	---	---	---	---	280	---
Bicarbonate	mg/L	NA	---	---	259	---	212	---	---
Bromide	mg/L	NA	0.58	0.4 U	---	---	---	---	1.4
Calcium, Dissolved	mg/L	NA	---	---	3.03	---	124	161	---
Carbonate	mg/L	NA	---	---	9.8	---	0.46 U	---	---
Chloride	mg/L	250, 500, 600 SMCL	---	---	27.1	---	264	49	---
Fluoride	mg/L	2	---	---	---	---	---	0.87	---
Magnesium, Dissolved	mg/L	NA	---	---	1.82	---	41.9	43.9	---
Nitrate-NO3	mg/L	45	---	---	0.22 U	0.22 U	0.22 U	0.22 U	---
pH	pH Units	6.5-8.5 SMCL	---	---	8.6	---	7.3	7.3	---
Potassium, Dissolved	mg/L	NA	---	---	0.981	---	4.94	3.92	---
Sodium, Dissolved	mg/L	NA	---	---	186	---	78.5	44.2	---
Sodium, Total	mg/L	NA	---	---	---	---	---	---	---
Specific Conductivity	umhos/cm	900, 1600, 2200 SMCL	---	---	833	---	1190	935	---
Sulfate	mg/L	250, 500, 600 SMCL	---	---	126	---	81.8	213	---
Total Dissolved Solids	mg/L	500, 1000, 1500 SMCL	---	---	541	---	756	685	---
Turbidity	NTU	5 SMCL	---	---	---	---	---	9.3	---
Delta Deuterium	per mil	NA	---	---	pending	---	---	---	---
Delta Oxygen-18	per mil	NA	---	---	-7.36	---	---	---	---

See last page of table for notes and abbreviations.

TABLE XI
SUMMARY OF ANALYSES FOR INORGANIC CONSTITUENTS, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:			**RD-98**	**RD-98**
Geological Unit:			Chatsworth	Chatsworth
Sample Type:			Primary	Primary
Lab Name:			Lancaster	Lancaster
Collection Date:			06/26/2008	09/11/2008
Analyte	**Result Value Units**	**MCL**		
Alkalinity as CaCO3	mg/L	NA	---	---
Bicarbonate	mg/L	NA	283	283
Bromide	mg/L	NA	---	---
Calcium, Dissolved	mg/L	NA	109	105
Carbonate	mg/L	NA	0.46 U	0.46 U
Chloride	mg/L	250, 500, 600 SMCL	39.1	38.3
Fluoride	mg/L	2	0.31	0.35
Magnesium, Dissolved	mg/L	NA	14.5	15.1
Nitrate-NO3	mg/L	45	4.3	4.3 J
pH	pH Units	6.5-8.5 SMCL	7.1	7
Potassium, Dissolved	mg/L	NA	3.4	3.87
Sodium, Dissolved	mg/L	NA	44.5	40.5
Sodium, Total	mg/L	NA	43.9	---
Specific Conductivity	umhos/cm	900, 1600, 2200 SMCL	780	762
Sulfate	mg/L	250, 500, 600 SMCL	92.6	88.5
Total Dissolved Solids	mg/L	500, 1000, 1500 SMCL	513	498
Turbidity	NTU	5 SMCL	---	---
Delta Deuterium	per mil	NA	---	---
Delta Oxygen-18	per mil	NA	---	---

See last page of table for notes and abbreviations.

TABLE XI
NOTES AND ABBREVIATIONS

1.	Lancaster	=	Lancaster Laboratories of Lancaster, Pennsylvania.
2.	MCL	=	Maximum Contaminant Level, California primary drinking water standard.
3.	NA	=	Not applicable; no MCL promulgated.
4.	SMCL	=	California Secondary Drinking Water MCL Ranges: Recommended, Upper, and Short Term.
5.	Shallow	=	Shallow wells and piezometers.
6.	Chatsworth	=	Chatsworth Formation wells.
7.	---	=	Analysis not performed.
8.	mg/L	=	Milligrams per liter.
9.	per mil	=	Parts per thousand.
10.	umhos/cm	=	Micromhos per centimeter.
11.	NTU	=	Nephelometric turbidity units.
12.	J	=	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL), or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
13.	U	=	Not detected.

14. Well OS-09 has been also referred to as Brandeis-Bardin Campus "Bathtub Well No. 1".

15. MCLs and SMCLs are from the California Department of Public Health (2006, 2007c). The pH SMCL is from the Environmental Protection Agency (2003).

16. G.G. Hatch Laboratories of Ottawa, Ontario performed oxygen-18 and deuterium isotope analyses using mass spectroscopy.

17. Calcium, magnesium, potassium, and sodium samples were filtered and acidified in the field and were analyzed using EPA Method 6010B. Only 6010B results from wells sampled for all four metals are included in this table.

18. Alkalinity as CaCO3, bicarbonate, and carbonate samples were analyzed using EPA Method SM2320B.

19. Bromide, chloride, fluoride, nitrate-NO3, and sulfate samples were analyzed using EPA Method 300.0.

20. pH, specific conductivity, total dissolved solids, and turbidity samples were analyzed using EPA Methods 150.1, 120.1, 160.1, and 180.1, respectively.

TABLE XII
SUMMARY OF ANALYSES FOR DIOXINS/FURANS
AND POLYCHLORINATED BIPHENYLS, THIRD QUARTER 2008
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:				**ES-21**	**HAR-11**	**HAR-14**	**HAR-15**	**HAR-07**	**HAR-07**	**HAR-16**
Sample Port:				---	---	---	---	---	---	---
Geological Unit:				Shallow	Shallow	Shallow	Shallow	Chatsworth	Chatsworth	Chatsworth
Sample Type:				Primary	Primary	Primary	Primary	Primary	Duplicate	Primary
Lab Name:				Lancaster	TA-Knoxville	TA-Knoxville	TA-Knoxville	TA-Knoxville	TA-Knoxville	TA-Knoxville
Collection Date:				09/04/2008	09/04/2008	08/21/2008	08/21/2008	08/27/2008	08/27/2008	09/04/2008
Analyte	**Method**	**Result Value Units**	**MCL**							
1,2,3,4,6,7,8-Heptachlorodibenzofuran	8290	pg/L	NA	0.85 U	0.97 U	34 J	0.47 U	0.61 U	0.55 U	0.83 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	8290	pg/L	NA	1.7 U	1.6 U	66	2 J	1.2 U	0.86 U	1.5 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	8290	pg/L	NA	1.1 U	1.4 U	3.6 J	0.63 U	0.9 U	0.79 U	1.1 U
1,2,3,4,7,8-Hexachlorodibenzofuran	8290	pg/L	NA	0.57 U	0.76 U	4.4 J	0.38 U	0.53 U	0.43 U	0.62 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	8290	pg/L	NA	0.83 U	1.4 U	0.32 U	0.53 U	0.9 U	0.75 U	1.1 U
1,2,3,6,7,8-Hexachlorodibenzofuran	8290	pg/L	NA	0.59 U	0.74 U	5.2 J	0.36 U	0.48 U	0.39 U	0.63 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	8290	pg/L	NA	0.93 U	1.6 U	4.4 J	0.69 U	1.1 U	0.81 U	1.2 U
1,2,3,7,8,9-Hexachlorodibenzofuran	8290	pg/L	NA	0.6 U	0.7 U	0.25 U	0.39 U	0.58 U	0.48 U	0.69 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	8290	pg/L	NA	0.82 U	1.4 U	0.31 U	0.56 U	0.93 U	0.73 U	1.1 U
1,2,3,7,8-Pentachlorodibenzofuran	8290	pg/L	NA	1.2 U	1.6 U	0.64 U	0.9 U	1.1 U	0.93 U	1.4 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	8290	pg/L	NA	1.5 U	2.2 U	0.43 U	1.1 U	1.2 U	0.99 U	1.6 U
2,3,4,6,7,8-Hexachlorodibenzofuran	8290	pg/L	NA	0.57 U	0.82 U	0.77 J	0.41 U	0.54 U	0.41 U	0.64 U
2,3,4,7,8-Pentachlorodibenzofuran	8290	pg/L	NA	0.97 U	1.4 U	0.55 J	0.72 U	0.88 U	0.77 U	1.1 U
2,3,7,8-TCDD	8290	pg/L	30	3.2 U	4 U	1.2 U	2.9 U	3.7 U	3.4 U	2.9 U
2,3,7,8-TCDD TEQ	8290	pg/L	30	5.7 U	7.7 U	2.8	0.02 J	5.9 U	5.3 U	5.7 U
2,3,7,8-Tetrachlorodibenzofuran	8290	pg/L	NA	1.9 U	2.3 U	0.67 U	1.6 U	2 U	1.9 U	2.3 U
Octachlorodibenzofuran	8290	pg/L	NA	2.1 U	2.1 U	58	2.4 U	1.3 U	1.3 U	1.4 U
Octachlorodibenzo-p-dioxin	8290	pg/L	NA	3.3 U	7.5 U	290	11 U	1.4 U	0.97 U	1.1 U
Aroclor 1016	8082	ug/L	0.5 (total)	0.096 U	---	---	---	---	---	---
Aroclor 1221	8082	ug/L	0.5 (total)	0.096 U	---	---	---	---	---	---
Aroclor 1232	8082	ug/L	0.5 (total)	0.19 U	---	---	---	---	---	---
Aroclor 1242	8082	ug/L	0.5 (total)	0.096 U	---	---	---	---	---	---
Aroclor 1248	8082	ug/L	0.5 (total)	0.096 U	---	---	---	---	---	---
Aroclor 1254	8082	ug/L	0.5 (total)	0.096 U	---	---	---	---	---	---
Aroclor 1260	8082	ug/L	0.5 (total)	0.096 U	---	---	---	---	---	---

See last page of table for notes and abbreviations.

TABLE XII
SUMMARY OF ANALYSES FOR DIOXINS/FURANS
AND POLYCHLORINATED BIPHENYLS, THIRD QUARTER 2008
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:				**HAR-16**	**HAR-17**	**HAR-17**	**RD-19**	**RD-20**
Sample Port:				---	---	---	---	---
Geological Unit:				Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Sample Type:				Duplicate	Primary	Duplicate	Primary	Primary
Lab Name:				TA-Knoxville	TA-Knoxville	TA-Knoxville	Lancaster	TA-Knoxville
Collection Date:				09/04/2008	09/04/2008	09/04/2008	08/11/2008	08/18/2008
Analyte	**Method**	**Result Value Units**	**MCL**					
1,2,3,4,6,7,8-Heptachlorodibenzofuran	8290	pg/L	NA	0.75 U	0.85 U	1.1 U	---	0.54 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	8290	pg/L	NA	1.5 U	1.8 U	2 U	---	0.9 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	8290	pg/L	NA	0.98 U	1.1 U	1.4 U	---	0.71 U
1,2,3,4,7,8-Hexachlorodibenzofuran	8290	pg/L	NA	0.61 U	0.69 U	0.95 U	---	0.41 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	8290	pg/L	NA	0.8 U	0.92 U	1.1 U	---	0.68 U
1,2,3,6,7,8-Hexachlorodibenzofuran	8290	pg/L	NA	0.62 U	0.63 U	0.86 U	---	0.39 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	8290	pg/L	NA	0.92 U	1.1 U	1.3 U	---	0.79 U
1,2,3,7,8,9-Hexachlorodibenzofuran	8290	pg/L	NA	0.66 U	0.7 U	0.97 U	---	0.41 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	8290	pg/L	NA	0.8 U	0.94 U	1.1 U	---	0.69 U
1,2,3,7,8-Pentachlorodibenzofuran	8290	pg/L	NA	1 U	1.2 U	1.6 U	---	0.77 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	8290	pg/L	NA	1.4 U	1.6 U	1.7 U	---	0.88 U
2,3,4,6,7,8-Hexachlorodibenzofuran	8290	pg/L	NA	0.62 U	0.65 U	0.88 U	---	0.41 U
2,3,4,7,8-Pentachlorodibenzofuran	8290	pg/L	NA	0.89 U	1 U	1.3 U	---	0.6 U
2,3,7,8-TCDD	8290	pg/L	30	2.7 U	3.2 U	4.1 U	---	2.3 U
2,3,7,8-TCDD TEQ	8290	pg/L	30	5.1 U	6.0 U	7.2 U	---	3.9 U
2,3,7,8-Tetrachlorodibenzofuran	8290	pg/L	NA	1.8 U	2.2 U	2.3 U	---	1.3 U
Octachlorodibenzofuran	8290	pg/L	NA	1.5 U	1.9 U	2.3 U	---	2.3 U
Octachlorodibenzo-p-dioxin	8290	pg/L	NA	1.8 U	1.6 U	1.9 U	---	3.3 U
Aroclor 1016	8082	ug/L	0.5 (total)	---	---	---	0.097 U	---
Aroclor 1221	8082	ug/L	0.5 (total)	---	---	---	0.097 U	---
Aroclor 1232	8082	ug/L	0.5 (total)	---	---	---	0.19 U	---
Aroclor 1242	8082	ug/L	0.5 (total)	---	---	---	0.097 U	---
Aroclor 1248	8082	ug/L	0.5 (total)	---	---	---	0.097 U	---
Aroclor 1254	8082	ug/L	0.5 (total)	---	---	---	0.097 U	---
Aroclor 1260	8082	ug/L	0.5 (total)	---	---	---	0.097 U	---

See last page of table for notes and abbreviations.

TABLE XII
NOTES AND ABBREVIATIONS

1. Lancaster = Lancaster Laboratories of Lancaster, Pennsylvania.
2. TA-Knoxville = TestAmerica of Knoxville, Tennessee.

3. Dioxin and furan samples were analyzed by EPA method 8290 by TestAmerica - Knoxville.
   Polychlorinated biphenyls (PCB) samples were analyzed by EPA method 8082 by Lancaster Laboratories.

4. Chatsworth = Chatsworth Formation wells.
5. Shallow = Shallow wells.
6. pg/L = Picograms per liter.
7. ug/L = Micrograms per liter.
8. J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL), or concentration estimated due to analytical quality control deficiencies (see Appendix A for details).
9. U = Not detected.
10. MCL = Maximum Contaminant Level, California primary drinking water standard.
11. NA = Not available; no MCL promulgated.
12. MCLs and NLs are from the California Department of Public Health (2007a, 2007b, 2007c).

13.

1,2,3,4,6,7,8-Heptachlorodibenzofuran	=	1,2,3,4,6,7,8-HpCDF
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	=	1,2,3,4,6,7,8-HpCDD
1,2,3,4,7,8,9-Heptachlorodibenzofuran	=	1,2,3,4,7,8,9-HpCDF
1,2,3,4,7,8-Hexachlorodibenzofuran	=	1,2,3,4,7,8-HxCDF
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	=	1,2,3,4,7,8-HxCDD
1,2,3,6,7,8-Hexachlorodibenzofuran	=	1,2,3,6,7,8-HxCDF
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	=	1,2,3,6,7,8-HxCDD
1,2,3,7,8,9-Hexachlorodibenzofuran	=	1,2,3,7,8,9-HxCDF
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	=	1,2,3,7,8,9-HxCDD
1,2,3,7,8-Pentachlorodibenzofuran	=	1,2,3,7,8-PeCDF
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	=	1,2,3,7,8-PeCDD
2,3,4,6,7,8-Hexachlorodibenzofuran	=	2,3,4,6,7,8-HxCDF
2,3,4,7,8-Pentachlorodibenzofuran	=	2,3,4,7,8-PeCDF
2,3,7,8-Tetrachlorodibenzo-p-dioxin	=	2,3,7,8-TCDD
2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalency	=	2,3,7,8-TCDD TEQ
2,3,7,8-Tetrachlorodibenzofuran	=	2,3,7,8-TCDF
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	=	OCDF
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	=	OCDD
2,3,7,8-TCDD TEQ	=	Toxicity equivalent

14. 2,3,7,8-TCDD TEQs were calculated using 2005 toxic equivalency factors (van den Berg et al., 2006).

TABLE XIII
SUMMARY OF ANALYSES FOR HYDRAZINES AND SURFACTANTS
RCRA FACILITY INVESTIGATION, THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier:		**PZ-041**	**PZ-108**	**PZ-121**	**PZ-122**	**RD-13**
Geological Unit:		Shallow	Shallow	Shallow	Shallow	Chatsworth
Sample Type:		Primary	Primary	Primary	Primary	Primary
Lab Name:		Lancaster	Truesdail	Truesdail	Truesdail	Truesdail
Collection Date:		09/10/2008	08/20/2008	08/20/2008	08/20/2008	09/03/2008
Analyte	**Result Value Units**					
1,1-Dimethylhydrazine	ug/L	---	0.32 U	0.32 U	0.32 U	0.32 U
Hydrazine	ug/L	---	0.15 U	0.15 U	0.15 U	0.15 U
Monomethylhydrazine	ug/L	---	0.56 U	0.56 U	0.56 U	0.56 U
Surfactants	mg/L	0.035 UJ	---	---	---	---

NOTES AND EXPLANATIONS:
1. Lancaster = Lancaster Laboratories of Lancaster, Pennsylvania.
2. Truesdail = Truesdail Laboratories, Inc. of Tustin, California.
3. Chatsworth = Chatsworth Formation wells.
4. Shallow = Shallow wells and piezometers.
5. mg/L = Milligrams per liter.
6. ug/L = Micrograms per liter.
7. U = Not detected.
8. UJ = Not detected. Estimated detection limit as a result of analytical quality control deficiencies (see Appendix A for details).
9. Hydrazines were analyzed using EPA method 8315M.
10. Surfactants were analyzed using EPA method 425.1.

TABLE XIV
SUMMARY OF GROUNDWATER EXTRACTIONS
FOR PERMITTED GROUNDWATER REMEDIATION FACILITIES
THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Remediation System	Extraction Well(s)	Gallons x 1,000 Jul	Aug	Sep	Total Pumpage Third Quarter 2008	Total Pumpage to Date
Delta ASU	WS-09A	0.0	0.0	0.0	0.0	
	HAR-07	0.0	0.0	0.0	0.0	
Alfa ASU	WS-06	0.0	0.0	0.0	0.0	
Bravo ASU	WS-09	0.0	0.0	0.0	0.0	
	RD-04	0.0	0.0	0.0	0.0	
	RD-09	0.0	0.0	0.0	0.0	
	ES-21	0.0	0.0	0.0	0.0	
	ES-22	0.0	0.0	0.0	0.0	
WS-5 Area	WS-05	0.0	0.0	0.0	0.0	
UV/H_2O_2	ES-01	0.0	0.0	0.0	0.0	
	ES-03	0.0	0.0	0.0	0.0	
	ES-04	0.0	0.0	0.0	0.0	
	ES-05	0.0	0.0	0.0	0.0	
	ES-06	0.0	0.0	0.0	0.0	
	ES-07	0.0	0.0	0.0	0.0	
	ES-11	0.0	0.0	0.0	0.0	
	HAR-04	0.0	0.0	0.0	0.0	
	HAR-16	0.0	0.0	0.0	0.0	
	RD-01	0.0	0.0	0.0	0.0	
	RD-02	0.0	0.0	0.0	0.0	
STL-IV	ES-14	0.0	0.0	0.0	0.0	
ASU	ES-17	0.0	0.0	0.0	0.0	
	ES-23	0.0	0.0	0.0	0.0	
	ES-24	0.0	0.0	0.0	0.0	
	ES-26	0.0	0.0	0.0	0.0	
	ES-27	0.0	0.0	0.0	0.0	
	ES-30	0.0	0.0	0.0	0.0	
	ES-32	0.0	0.0	0.0	0.0	
	HAR-17	0.0	0.0	0.0	0.0	
	HAR-18	0.0	0.0	0.0	0.0	
	ECL-Sump	0.0	0.0	0.0	0.0	
	ECL-FD	0.0	0.0	0.0	0.0	
Total System		**0.0**	**0.0**	**0.0**	**0.0**	**1,761,800.7**

Notes and Abbreviations:
1. ASU = Air stripping unit
2. UV/H_2O_2 = Ultraviolet light/peroxidation
3. Remediation system monitoring conducted by EnviroSolve Corporation. Pumpage data and cumulative pumpage provided by EnviroSolve Corporation. Extraction wells were inactive during third quarter 2008 and will remain inactive while the new treatment system is constructed.

TABLE XV
SUMMARY OF WATER QUALITY RESULTS
FOR PERMITTED GROUNDWATER REMEDIATION FACILITIES,
THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Sample Location		Date Monitored	TCE (ug/L)	1,2-DCE (ug/L)		Perchlorate (ug/L)	VOCs Removed	
				cis	trans		By Quarter (lbs)	To Date (lbs)
Delta ASU	Influent	07/01/08	Not Operating					**1418.2**
		08/01/08						**1418.2**
		09/01/08					0.0	**1418.2**
	Primary Effluent	07/01/08	Not Operating					
		08/01/08						
		09/01/08						
	Secondary Effluent	07/01/08	Not Operating					
		08/01/08						
		09/01/08						
Alfa ASU	Influent	07/01/08	Not Operating					**456.4**
		08/01/08						**456.4**
		09/01/08					0.0	**456.4**
	Primary Effluent	07/01/08	Not Operating					
		08/01/08						
		09/01/08						
	Secondary Effluent	07/01/08	Not Operating					
		08/01/08						
		09/01/08						
Bravo ASU	Influent	07/01/08	Not Operating					**123.7**
		08/01/08						**123.7**
		09/01/08					0.0	**123.7**
	Primary Effluent	07/01/08	Not Operating					
		08/01/08						
		09/01/08						
	Secondary Effluent	07/01/08	Not Operating					
		08/01/08						
		09/01/08						
WS-05 UV/H_2O_2	Influent	07/01/08	Not Operating					**230.5**
		08/01/08						**230.5**
		09/01/08					0.0	**230.5**
	Effluent	07/01/08	Not Operating					
		08/01/08						
		09/01/08						
STL-IV ASU	Influent	07/01/08	Not Operating					**80.7**
		08/01/08						**80.7**
		09/01/08					0.0	**80.7**
	Primary Effluent	07/01/08	Not Operating					
		08/01/08						
		09/01/08						
	Secondary Effluent	07/01/08	Not Operating					
		08/01/08						
		09/01/08						

See last page of table for notes and abbreviations.

TABLE XV
NOTES AND ABBREVIATIONS

1. ASU = Air-stripping unit.
2. U = Not detected; numerical value is the reporting limit for that compound.
3. TCE = Trichloroethene or trichloroethylene.
4. 1,2-DCE = 1,2-Dichloroethene or 1,2-dichloroethylene.
5. ug/L = Micrograms per liter.
6. lbs = Pounds.
7. UV/H_2O_2 = Ultraviolet light/peroxidation.
8. --- = Not analyzed.
9. Extraction wells and treatment systems were inactive during third quarter of 2008. The new treatment system is scheduled to be constructed in 2008.

TABLE XVI

SUMMARY OF EXTRACTION WELL WATER LEVELS AND FLOW RATES,
THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Treatment System	Extraction Well	Water Level Measurement Date	Measuring Point Elevation (ft, MSL)	Depth to Water (feet)	Water Level Elevation (ft, MSL)	Average Monthly Flow Rate (gpm)	Average Quarterly Flow Rate (gpm)	Footnotes
Alfa ASU	WS-06	07/01/08	1932.72	NA	---	0		
		07/31/08	1932.72	336.33	1596.39	0		
		09/01/08	1932.72	NA	---	0	0	
Bravo ASU	ES-21	07/01/08	1769.62	NA	---	0		
		07/31/08	1769.62	26.25	1743.37	0		
		09/01/08	1769.62	NA	---	0	0	
	ES-22	07/01/08	1770.93	NA	---	0		
		07/31/08	1770.93	27.09	1743.84	0		
		09/01/08	1770.93	NA	---	0	0	
	RD-04	07/01/08	1883.85	NA	---	0		
		07/31/08	1883.85	285.30	1598.55	0		
		09/01/08	1883.85	NA	---	0	0	
	RD-09	07/01/08	1768.20	NA	---	0		
		08/11/08	1768.20	27.14	1741.06	0		
		09/01/08	1768.20	NA	---	0	0	
	WS-09	07/01/08	1883.99	NA	---	0		
		07/31/08	1883.99	284.34	1599.65	0		
		09/01/08	1883.99	NA	---	0	0	
Delta ASU	HAR-07	07/01/08	1728.38	NA	---	0		
		08/04/08	1728.38	67.74	1660.64	0		
		09/01/08	1728.38	NA	---	0	0	
	WS-09A	07/01/08	1647.61	NA	---	0		
		07/29/08	1647.61	24.42	1623.19	0		
		09/01/08	1647.61	NA	---	0	0	
STL-IV ASU	ECL FD	07/01/08	1525.00	NA	---	0		
		07/31/08	1525.00	Dry	---	0		
		09/01/08	1525.00	NA	---	0	0	
	ECL Sump	07/01/08	1511.00	NA	---	0		
		07/31/08	1511.00	9.09	1501.91	0		
		09/01/08	1511.00	NA	---	0	0	
	ES-14	07/01/08	1728.69	NA	---	0		
		08/01/08	1728.69	21.96	1706.73	0		
		09/01/08	1728.69	NA	---	0	0	
	ES-17	07/01/08	1739.31	NA	---	0		
		08/01/08	1739.31	20.30	1719.01	0		
		09/01/08	1739.31	NA	---	0	0	
	ES-23	07/01/08	1760.73	NA	---	0		
		07/31/08	1760.73	11.01	1749.72	0		
		09/01/08	1760.73	NA	---	0	0	
	ES-24	07/01/08	1728.67	NA	---	0		
		08/01/08	1728.67	24.95	1703.72	0		
		09/01/08	1728.67	NA	---	0	0	
	ES-26	07/01/08	1748.01	NA	---	0		
		08/01/08	1748.01	18.47	1729.54	0		
		09/01/08	1748.01	NA	---	0	0	
	ES-27	07/01/08	1740.67	NA	---	0		
		08/01/08	1740.67	NA	---	0		
		09/04/08	1740.67	13.87	1726.80	0	0	

See last page of table for notes and abbreviations.

TABLE XVI
SUMMARY OF EXTRACTION WELL WATER LEVELS AND FLOW RATES,
THIRD QUARTER 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Treatment System	Extraction Well	Water Level Measurement Date	Measuring Point Elevation (ft, MSL)	Depth to Water (feet)	Water Level Elevation (ft, MSL)	Average Monthly Flow Rate (gpm)	Average Quarterly Flow Rate (gpm)	Footnotes
STL-IV ASU (cont.)	ES-30	07/01/08	1759.51	NA	---	0		
		07/30/08	1759.51	9.87	1749.64	0		
		09/01/08	1759.51	NA	---	0	0	
	ES-32	07/01/08	1740.65	NA	---	0		
		08/01/08	1740.65	19.64	1721.01	0		
		09/01/08	1740.65	NA	---	0	0	
	HAR-17	07/01/08	1711.59	NA	---	0		
		08/01/08	1711.59	21.10	1690.49	0		
		09/01/08	1711.59	NA	---	0	0	
	HAR-18	07/01/08	1749.41	NA	---	0		
		08/01/08	1749.41	22.30	1727.11	0		
		09/01/08	1749.41	NA	---	0	0	
WS-05 UV/H2O2	ES-01	07/01/08	1782.20	NA	---	0		
		07/29/08	1782.20	19.2	1763.00	0		
		09/01/08	1782.20	NA	---	0	0	
	ES-03	07/01/08	1783.39	NA	---	0		
		07/29/08	1783.39	20.39	1763.00	0		
		09/01/08	1783.39	NA	---	0	0	
	ES-04	07/01/08	1817.24	NA	---	0		
		07/29/08	1817.24	13.14	1804.10	0		
		09/01/08	1817.24	NA	---	0	0	
	ES-05	07/01/08	1818.13	NA	---	0		
		07/29/08	1818.13	12.65	1805.48	0		
		09/01/08	1818.13	NA	---	0	0	
	ES-06	07/01/08	1825.41	NA	---	0		
		07/29/08	1825.41	16.43	1808.98	0		
		09/01/08	1825.41	NA	---	0	0	
	ES-07	07/01/08	1826.53	NA	---	0		
		07/29/08	1826.53	Dry	---	0		
		09/01/08	1826.53	NA	---	0	0	
	ES-11	07/01/08	1835.07	NA	---	0		
		07/29/08	1835.07	Dry	---	0		
		09/01/08	1835.07	NA	---	0	0	
	HAR-04	07/01/08	1873.40	NA	---	0		
		07/30/08	1873.40	20.46	1852.94	0		
		09/01/08	1873.40	NA	---	0	0	
	HAR-16	07/01/08	1872.31	NA	---	0		
		07/30/08	1872.31	55.53	1816.78	0		
		09/01/08	1872.31	NA	---	0	0	
	RD-01	07/01/08	1935.89	NA	---	0		
		08/01/08	1935.89	202.51	1733.38	0		
		09/01/08	1935.89	NA	---	0	0	
	RD-02	07/01/08	1873.92	NA	---	0		
		08/04/08	1873.92	157.68	1716.24	0		
		09/01/08	1873.92	NA	---	0	0	
	WS-05	07/01/08	1830.20	NA	---	0		
		08/04/08	1830.20	233.10	1597.10	0		
		09/01/08	1830.20	NA	---	0	0	

See last page of table for notes and abbreviations.

TABLE XVI
NOTES AND ABBREVIATIONS

1. NA = Not available. Well was not monitored or transducer was inoperable. Water level measurement at inactive wells was discontinued in June 2004.

2. MSL = Mean sea level.

3. (---) = No data available/not applicable.

4. ASU = Air stripping unit.

5. UV/H2O2 = Ultraviolet light/ peroxidation.

6. Several extraction wells were inactive due to ongoing Shallow Zone Groundwater Investigation (Ogden, 2000), the Chatsworth Formation Operable Unit Investigation (Montgomery Watson, 2000b), and damage due to the September 2005 Topanga fire.

OS-09 & OS-09R ARE LOCATED ABOUT 3400' NORTH OF MAP EDGE

OS-10 IS LOCATED ABOUT 1800' NORTH OF MAP EDGE

UNDEVELOPED LAND

UNDEVELOPED LAND

UNDEVELOPED LAND

AREA I

AREA II

AREA III

AREA IV

BURRO FLATS

RD-09 Area UV

SPA-1

SPA-2

ALFA-BRAVO

ECL

Alfa

Bravo

BRAVO ASU

ALFA ASU

DELTA

Delta

Delta ASU

STL-IV

STL-IV-1

STL-IV-2

STL-IV ASU

Coca

APTF-1

APTF-2

APTF

Canyon

Canyon ASU

WS-05 Area UV

Area I Road ASU

Bowl

LEGEND

- CHATSWORTH FORMATION MONITORING WELL
- CHATSWORTH FORMATION EXTRACTION WELL
- PROPERTY BOUNDARY LINE
- C-1 COREHOLE
- SPRING
- SHALLOW EXTRACTION WELL
- SHALLOW MONITORING WELL
- RCRA IMPOUNDMENT
- FORMER OR INACTIVE TEST STAND
- PERMITTED GROUNDWATER TREATMENT SYSTEM - AIR STRIPPING UNIT (ASU)
- PERMITTED GROUNDWATER TREATMENT SYSTEM - UV/H2O2(UV)

N

W E

S

0 1000 2000 3000

SCALE IN FEET

PLEASE NOTE: THE ORIGINAL VERSION OF THIS FIGURE INCLUDES COLORIZED FEATURES AND SHADING. A BLACK AND WHITE COPY OF THE FIGURE SHOULD NOT BE USED BECAUSE IT MAY NOT ACCURATELY REPRESENT THE INFORMATION PRESENTED.

THIRD QUARTER GROUNDWATER MONITORING REPORT, 2008

HALEY & ALDRICH

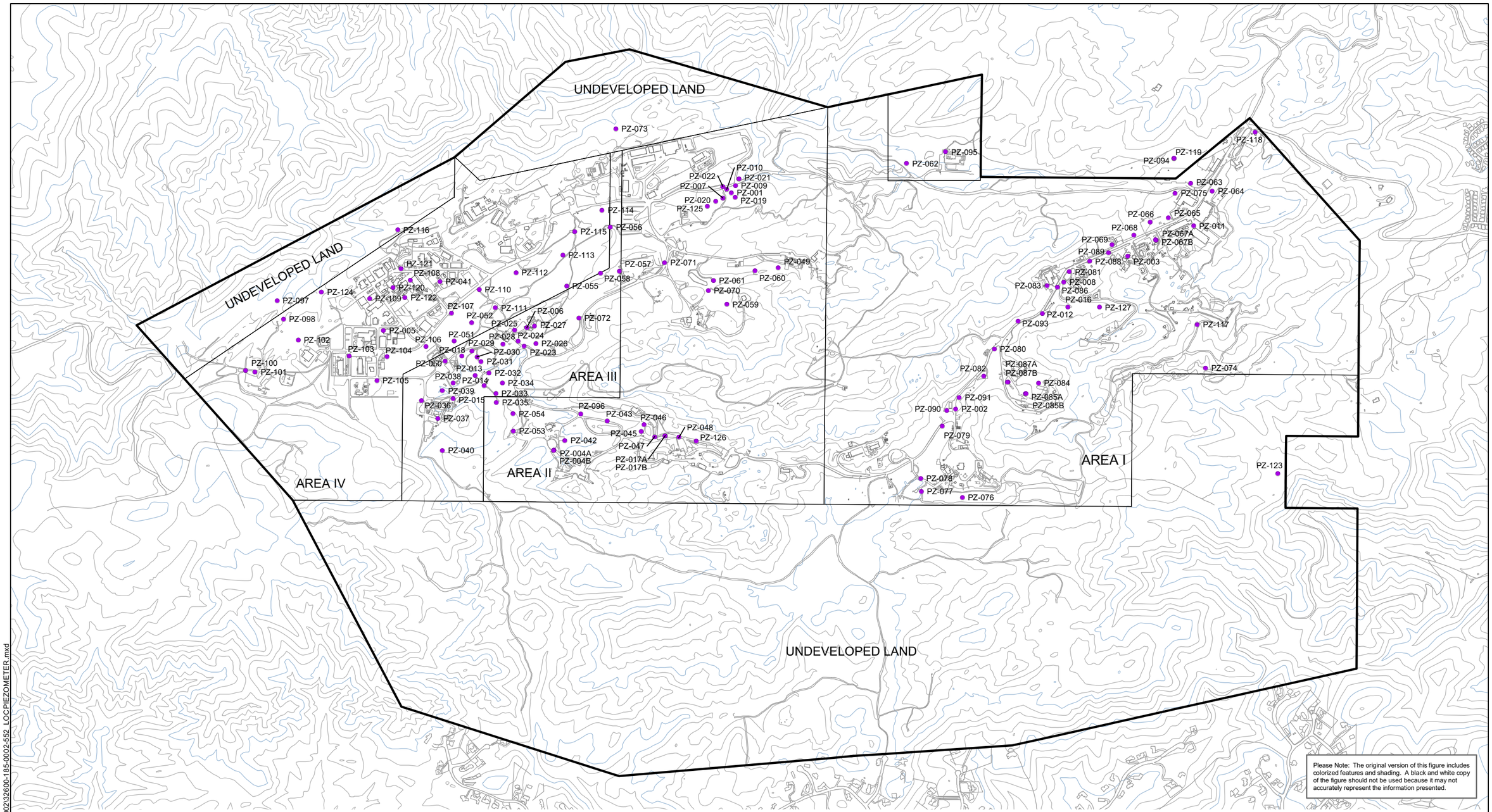
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

LOCATIONS OF WELLS, SPRINGS, AND GROUNDWATER RECLAMATION COMPONENTS

SCALE: AS SHOWN
NOVEMBER 2008

FIGURE 1

G:\Graphics\Projects\26472 - Boeing\GIS_200232600-185-0001-551_LOCWELLS.mxd



Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Legend

- PIEZOMETER
- PROPERTY BOUNDARY LINE

N
W E
S

0 1000 2000 3000
SCALE IN FEET

THIRD QUARTER GROUNDWATER MONITORING REPORT, 2008

HALEY & ALDRICH

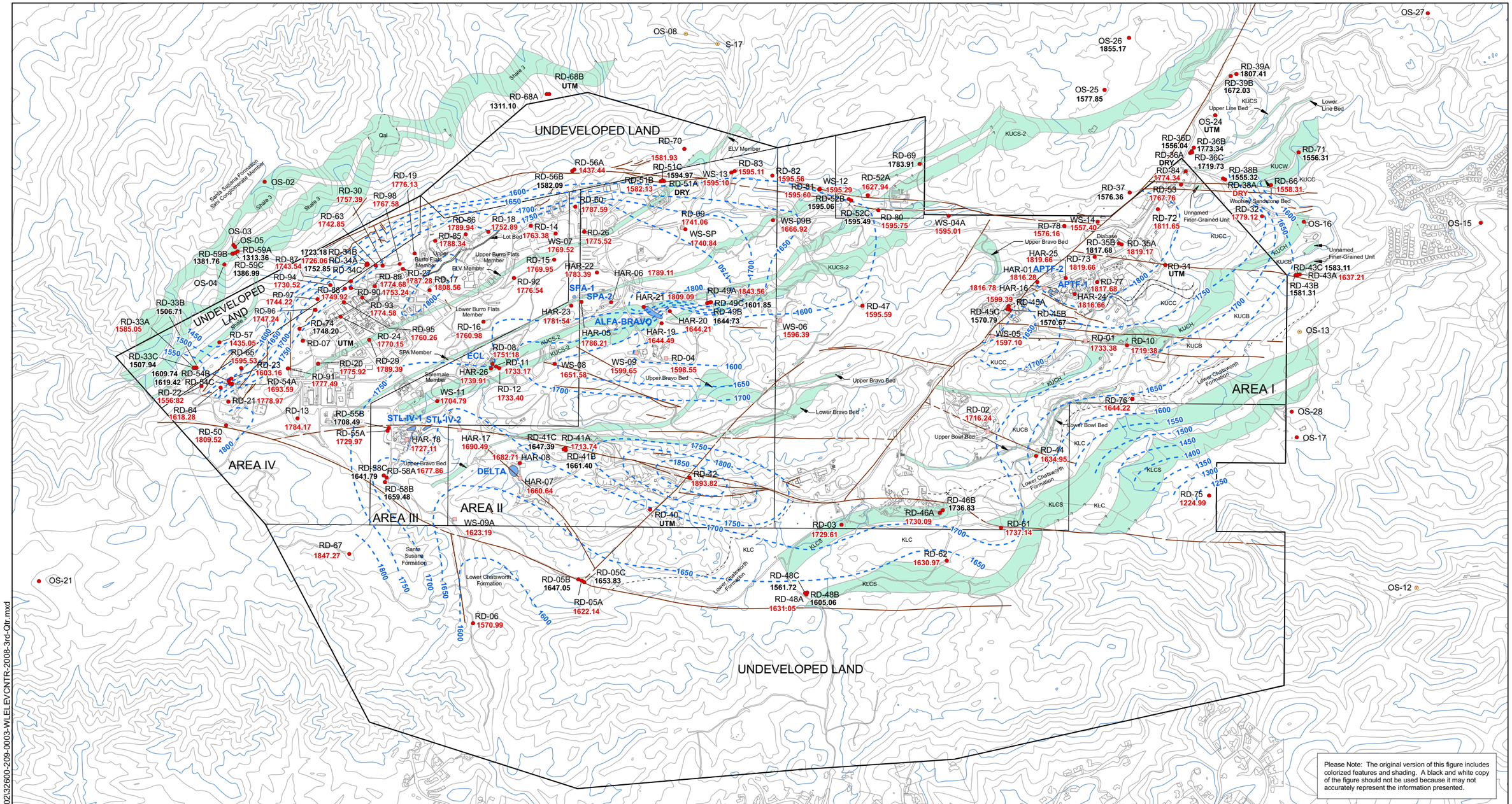
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

LOCATIONS OF PIEZOMETERS

SCALE: AS SHOWN
NOVEMBER 2008

FIGURE 2

G:\Graphics\Projects\26472 - Boeing\GIS 2002\32600-185-0002-552 LOCPIEZOMETER.mxd



LEGEND

- SPRING
- CHATSWORTH FORMATION MONITORING WELL
- CHATSWORTH FORMATION EXTRACTION WELL
- PROPERTY BOUNDARY LINE
- FAULT, SHEAR ZONE, AND/OR DEFORMATION BAND

1600	APPROXIMATE CONTOUR OF EQUAL WATER LEVEL ELEVATION, IN FEET ABOVE MEAN SEA LEVEL. CONTOUR INTERVAL 50 FEET.
1644.22	WATER LEVEL ELEVATION, IN FEET ABOVE MEAN SEA LEVEL.
1647.05	WATER LEVEL ELEVATION, IN FEET ABOVE MEAN SEA LEVEL. WATER LEVEL NOT USED TO GENERATE CONTOUR LINES.
UTM	UNABLE TO MEASURE
NM	NOT MEASURED

LEGEND FOR GEOLOGY: REFER TO FIGURE 4, GEOLOGIC MAP, IN HALEY & ALDRICH'S "REPORT ON THE ANNUAL GROUNDWATER MONITORING, 2007, SANTA SUSANA FIELD LABORATORY, VENTURA COUNTY, CALIFORNIA," FEBRUARY 28, 2008.

- KUCC — GEOLOGIC UNIT
- MARKER BED
- KLCS — GEOLOGIC UNIT

GEOLOGY PROVIDED BY MWH. "GEOLOGIC CHARACTERIZATION OF THE CENTRAL SANTA SUSANA FIELD LABORATORY, VENTURA COUNTY, CA", 2007.

WATER LEVEL ELEVATIONS ARE PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY AND ARE NOT INTENDED TO INFER GROUNDWATER FLOW CONDITIONS. THE LATERAL DIRECTION OF GROUNDWATER MOVEMENT CANNOT BE ASCERTAINED FROM THE CONTOUR LINES BECAUSE OF STRATIGRAPHIC AND STRUCTURAL PROPERTIES OF THE BEDROCK.

CONTOURS ARE BASED ON MEASURED WATER LEVELS IN CONVENTIONAL WELLS. ACTUAL WATER LEVELS IN THE SUBSURFACE WILL VARY FROM THOSE SHOWN.

N / W / E / S

0 1000 2000
SCALE IN FEET

THIRD QUARTER GROUNDWATER MONITORING REPORT, 2008

HALEY & ALDRICH

THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

CHATSWORTH FORMATION WATER LEVEL ELEVATION CONTOUR MAP - JULY 2008

SCALE: AS SHOWN
NOVEMBER 2008

FIGURE 3

G:\Graphics\Projects\26472 - Boeing\GIS_2002\32600-209-0003-WLELEVCNTR-2008-3rd-Qtr.mxd

UNDEVELOPED LAND

UNDEVELOPED LAND

6

2

7

B204

7

B/359

3

WS-05 AREA UV/
HYDROGEN PEROXIDE
SYSTEM

HAPPY VALLEY

1a

8

Burro Flats

FSDF

AREA III

5

4

DELTA ASU

AREA IV

AREA II

AREA I

1b

9

UNDEVELOPED LAND

NPDES OUTFALL 002

NPDES OUTFALL 001

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

THIRD QUARTER GROUNDWATER MONITORING REPORT, 2008

LEGEND

- SMOU RFI GROUP
- SITE AREA BOUNDARY
- SITE FEATURE

NOTES:
FSDF = FORMER SODIUM DISPOSAL FACILITY

N
W E
S

0 1000 2000 3000

SCALE IN FEET

HALEY& ALDRICH

THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

LOCATION OF REFERENCED SITE FEATURES

SCALE: AS SHOWN
NOVEMBER 2008

FIGURE 4

G:\Graphics\Projects\26472 - Boeing\GIS_2002\32600-185-0004-553_LOCSITEFEATURE.mxd

APPENDIX A

Quality Assurance Assessment

APPENDIX A
TABLE OF CONTENTS

		Page
1.	**OVERVIEW**	**1**
2.	**INTRODUCTION**	**2**
2.1	Quality Assurance/Quality Control (QA/QC) Procedures	2
3.	**QA/QC EVALUATION**	**4**
3.1	Field Data	4
3.1.1	Pre-Sampling Water Levels	4
3.1.2	Groundwater Sample Collection	4
3.1.3	QA/QC Sample Collection	4
3.1.4	Water Quality Parameter Measurements	5
3.2	Analytical Data	5
3.2.1	Comparison with Historical Water Quality Data	5
3.2.2	Lab Performance Comparison	5
3.2.3	Field Duplicate Sample Precision	5
3.2.4	Data Representativeness, Reproducibility, and Completeness	5
3.2.5	Contract-Required Minimum Detectable Activity	6
3.2.6	Data Usability Summary	6
3.2.6.1	Chain of Custody Procedures	7
3.2.6.2	Preservation/Holding Time Compliance	7
3.2.6.3	Blank Sample Analyses	8
3.2.6.4	Surrogate Recovery Limit Exceedance	9
3.2.6.5	Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analyses	9
3.2.6.6	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Sample Analyses	9
3.2.6.7	Data Qualification of Samples by MECX	10
3.2.6.8	Data Qualification Due to Miscellaneous Issues	10
3.2.6.9	Sample Data Reporting	10
3.2.6.10	Data Qualifiers	10
3.2.6.11	Summary	11

APPENDIX A
TABLE OF CONTENTS
(Continued)

LIST OF TABLES

Table No.	Title
A-I	Summary of Third Quarter 2008 Split Sample Results
A-II	Summary of Third Quarter 2008 Duplicate Sample Results
A-III	Summary of Third Quarter 2008 Data Qualification Due to Preservation/ Holding Time Exceedance
A-IV	Summary of Third Quarter 2008 Data Qualification Due to Blank Sample Contamination
A-V	Summary of Third Quarter 2008 Data Qualification Due to LCS/LCSD, MS/MSD Recovery Exceedance
A-VI	Summary of Third Quarter 2008 Data Qualification of Samples by MECX
A-VII	Summary of Third Quarter 2008 Data Qualification Due to Miscellaneous Issues

1. OVERVIEW

Field and laboratory data were reviewed for consistency with the procedures outlined in the *Groundwater Monitoring, Quality Assurance Project Plan, Santa Susana Field Laboratory* (GWRC, 1995c) following the third quarter 2008 groundwater sampling event. Results of the review are discussed in the following sections. The analytical data were validated pursuant to the process summarized in Section 3.2 of this Appendix.

2. INTRODUCTION

2.1 Quality Assurance/Quality Control (QA/QC) Procedures

Following each quarterly groundwater sampling event, field and laboratory data are reviewed for consistency with procedures outlined in the *Groundwater Monitoring, Quality Assurance Project Plan, Santa Susana Field Laboratory* (GWRC, 1995c). As the project develops, it is anticipated that the quality assurance assessment conducted following each quarterly event may be modified. The current procedures include reviewing field forms and documentation and evaluating whether field data were complete. Analytical data were reviewed by the laboratory for precision, accuracy, representativeness, and comparability as part of its standard Quality Assurance/Quality Control (QA/QC) program. QA/QC data were reported as part of the laboratory data package. Analytical data also were reviewed by Haley & Aldrich for data representativeness, reproducibility, completeness, erroneous data, and discrepancies.

Laboratories used during the quarter included

Laboratory	Abbreviation	Location
Eberline Services	Eberline	Richmond, California
G.G. Hatch Laboratories	GG Hatch	Ottawa, Ontario, Canada
Lancaster Laboratories	Lancaster	Lancaster, Pennsylvania
TestAmerica-Denver	TA-Denver	Arvada, Colorado
TestAmerica-Knoxville	TA-Knoxville	Knoxville, Tennessee
Truesdail Laboratories, Inc.	Truesdail	Tustin, California
Weck Laboratories	Weck	City of Industry, California

Lancaster Laboratories of Lancaster, Pennsylvania served as the primary laboratory for all analyses except for the following:

Primary Lab	Analytes
Eberline	Radionuclides
GG Hatch	Oxygen-18 and deuterium
TA-Knoxville	Dioxins and Furans
Truesdail	Hydrazines
Weck	Hexavalent chromium and n-Nitrosodimethylamine (NDMA)

Split samples were analyzed by the laboratories listed below.

Split Lab	Analytes
TA-Denver	VOCs and perchlorate

Haley & Aldrich field and analytical data reviews are summarized below.

Completeness values presented in this summary were calculated using the following equation:

$$C = \left[1 - \frac{\text{number of incomplete results}}{\text{total number requested}} \right] \times 100$$

3. QA/QC EVALUATION

3.1 Field Data

3.1.1 Pre-Sampling Water Levels

During the third quarter sampling event, facility wells, three private off-site wells, and a number of piezometers were scheduled for water level monitoring prior to sampling. Monitoring attempts are summarized below. Nine wells were not monitored because the access tubing was melted (2 wells), FLUTe systems prevented access (2 wells), dataloggers were inoperable (1 well), open valve prevented pressure reading of artesian water level (1 well), inaccessibility (1 well), and obstruction prevented water level measurement (2 wells).

Water Level Monitoring	Third Quarter 2008
Number of locations scheduled	297
Number of locations monitored	288
Completeness value	97%

3.1.2 Groundwater Sample Collection

During the third quarter sampling event, the number of wells and piezometers scheduled for sampling was 232. Of the locations scheduled for sampling, 59% were sampled. Samples were not collected at a number of locations because the wells or piezometers were dry, contained inadequate water for sampling purposes, were inaccessible, or the well equipment malfunctioned.

Comparing the number of wells that could be sampled versus the schedule, the field completeness value for water sample collection was 100% for the quarter.

3.1.3 QA/QC Sample Collection

Duplicate samples, split samples, field blanks, and trip blanks comprise the QA/QC sample collection program. The QA/QC target for duplicate samples is 10% of sampled wells. Split samples are scheduled to be collected from wells requiring verification sampling and from randomly selected wells, and typically comprise 5% of all sampled wells. Field blanks are scheduled to be collected each day that volatile organic samples are collected. Trip blanks are to be included with each shipment of VOC samples.

Results of QA/QC sample collection during the third quarter 2008 are summarized below.

QA/QC Sample Type	Third Quarter 2008
Percent of samples duplicated	20%
Percent of samples split	10%
Field blank completeness value	87%
Trip blank completeness value	100%

Because additional QA/QC samples are collected for NDMA and perchlorate, the percentages of duplicate and split samples collected were higher than the targeted 10% and 5%, respectively.

3.1.4 Water Quality Parameter Measurements

Each water quality parameter (pH, temperature, electrical conductivity, and turbidity) is scheduled to be measured at least three times before sample collection. At three wells, one or more field parameters were not measured three times prior to sampling during the quarter. The completeness value for field parameters measured at least three times prior to sample collection was 96% for the quarter.

3.2 Analytical Data

All laboratories were certified by the California Department of Health Services Environmental Laboratory Accreditation Program.

3.2.1 Comparison with Historical Water Quality Data

Some analyte concentrations increased or decreased in groundwater samples collected during the quarter with respect to prior results, but most values were within the range of historical data. A summary of results is included in Section 2.2 of this report.

Results of verification and follow-up sampling conducted during the quarter are summarized in Section 2.2.4.

3.2.2 Lab Performance Comparison

Results of the split sample analyses are presented in Table A-I. Replicate percent differences (RPDs) were calculated for each analyte detected by both the primary and split laboratories if the analyte concentration exceeded the product of five times the method detection limit (MDL) times the dilution factor. The RPD value calculated for the third quarter 2008 split sample analyses was 12%.

$$RPD = \left| ((X_1 - X_2)/X_{ave}) \right| \times 100$$

X_1 = primary concentration observed;
X_2 = split concentration observed; and
X_{ave} = average concentration = $((X_1 + X_2) / 2)$

3.2.3 Field Duplicate Sample Precision

Results of analyses were precise as indicated by the RPDs of field duplicate samples (Table A-II). RPD values calculated for the third quarter 2008 duplicate samples ranged from 0% to 24%.

3.2.4 Data Representativeness, Reproducibility, and Completeness

Data representativeness, reproducibility, and completeness of quarterly results were evaluated by verifying the following:

- all locations were sampled as scheduled,
- samples were properly collected and preserved (if required),
- procedures to maintain the integrity of samples during shipment were followed,
- sample dilutions were properly conducted,
- chain-of-custody records were complete when submitted or changed appropriately, and
- laboratory QA/QC data were obtained for each sample submitted.

All locations were sampled as scheduled except at locations where wells contained insufficient water volume, where equipment problems were encountered, or where wells were inaccessible. All samples were preserved (where necessary) and shipped following acceptable procedures. Samples from wells with previous TCE concentrations exceeding 3,000 μg/L were segregated during storage and shipment.

A few chain-of-custody forms were not completed satisfactorily. Because the laboratories were notified of the deficiencies immediately following sample submission, all samples submitted were identified correctly and analyzed according to the monitoring schedule. Field personnel were informed of the custody form deficiencies and provided a copy of the corrected custody form.

All samples were received appropriately, identified correctly, and analyzed according to the monitoring requirements.

3.2.5 Contract-Required Minimum Detectable Activity

Project laboratory analysis technical specifications, including Minimum Detectable Activities (MDAs), have been developed to insure collection of high quality data and to be consistent with EPA Drinking Water regulations (Federal Register, 2000). Some data do not meet the MDA requirements (see below). Non-attainment of the MDA technical specifications is due in part to matrix conditions and in part to limitations in the prescribed analytical methods. Matrix conditions, including concentrations of dissolved and suspended solids, impact the homogeneity of the samples and limit method counting efficiency. Additionally, prescribed analytical methods call for specified sample volumes and counting times that further limit the ability to attain the project MDAs.

During the quarter, the radiochemistry laboratory was able to meet the contract-required MDAs for most radionuclides. The contract-required MDAs are equal to or less than detection limits prescribed for drinking water by the EPA Drinking Water regulations (Federal Register, 2000). In cases where the contract-required MDAs were not met, the positive results determined for the radioisotopes exceeded both the required and obtained MDAs.

3.2.6 Data Usability Summary

Analytical results for groundwater samples, trip blank samples, field blank samples, and site specific matrix spike and matrix spike duplicate samples (MS/MSD) were reviewed to evaluate the data usability. These data were assessed in accordance with guidance from the EPA "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (EPA540/R-99/008, October 1999), "USEPA Contract

Laboratory Program National Functional Guidelines for Inorganic Data Review" (EPA 540-R-01-008, July 2002), and the EPA Method specific protocol criteria, where applicable. Radiochemical data were assessed in accordance with protocols established for the U.S. Department of Energy, "Evaluation of Radiochemical Data" (Paar & Porterfield, 1997).

The following items/criteria applicable to the QA/QC data and sample analysis data listed above were reviewed:

- Chain of Custody Procedures
- Preservation and Analytical Holding Time Compliance
- Method Blank, Trip Blank, and Field Blank Sample Analyses
- Surrogate Compound Recoveries
- Laboratory Control Sample Analyses
- Matrix Spike Sample Analyses
- Sample Data Reporting Procedures
- Laboratory Data Qualification Procedures

3.2.6.1 Chain of Custody Procedures

Chain of custody documentation was completed by Haley & Aldrich personnel during the performance of sampling activities conducted at SSFL. The external chain of custody documents were completed appropriately upon sample transfer to analytical laboratory personnel.

A review of the chain of custody documents indicated that the sample custody remained intact through the analytical process and the reported results are representative of the samples collected at SSFL. The chain of custody documents are provided with each laboratory report.

3.2.6.2 Preservation/Holding Time Compliance

Maximum recommended holding times as prescribed by the EPA, "Test Methods for Evaluating Solid Waste", SW-846, 3rd Edition, Update III, 1996 were applied to the evaluation of each project sample. Holding time compliance was measured from the time of sample collection to the time of sample preparation or analysis.

Preservation criteria for VOC analysis recommend that samples that have not been maintained at 4°C ± 2°C and preserved to a pH of 2 or below should be analyzed within seven days of sample collection. VOC samples that meet the preservation criteria should be analyzed within 14 days of sample collection. VOC samples should not contain headspace.

During the quarter, some general mineral and surfactant analyses exceeded the holding time limits. For samples with holding time violations, non-detect results were qualified with a "UJ" and detects were qualified with a "J" indicating that the results were estimated (Table A-III).

3.2.6.3 Blank Sample Analyses

VOCs trip blank samples were provided by TestAmerica-Denver and Lancaster Laboratories and NDMA trip blank samples were provided by Weck laboratories, and accompanied the project sample containers to and from the project site to assess possible field and/or container contamination.

Method blank samples were prepared by the analytical laboratories and analyzed concurrently with the project samples to assess possible laboratory contamination.

Field blank samples were prepared at the well locations with water provided by the laboratories. ASTM Type II water was used for VOCs and nano-pure water passed through UV filtration was used for NDMA.

Several target analytes were detected in some field blank samples, trip blank samples, and in method blank samples prepared and analyzed with the project samples. Table A-IV provides a list of the target analytes detected in the project field blanks, trip blanks, and method blank samples which required corrective action; the associated project samples; and the recommended corrective action for the presentation of the sample analysis results. Target analytes detected in blank samples that did not require corrective action are not included in the table.

In accordance with cited EPA guidelines, sample results of analyses should be reported as detected unless the concentration of the analyte in the project sample is less than or equal to the amount in any blank multiplied by a method-specific factor:

- For VOCs, the factor is 10 times (10X) for the common laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane), and 5 times (5X) the blank sample concentration for other target analytes.
- For SVOCs, the factor is 10X for common laboratory contaminants such as phthalate esters and 5X for other target analytes.
- For dioxins and furans, fuel hydrocarbons, and general mineral analytes, the factor is 5X.
- For metal analytes, the factor is 10X.
- For formaldehyde and ammonia, the factor is 5X.

Blank samples are not always analyzed at the same dilution as the associated samples. For diluted samples, concentrations should be divided by the dilution factor when applying the 5X or 10X rules, such that a comparison of the total amount of analyte is actually made. Sample results that were qualified with a "U" flag as a result of detection in blank samples are listed in Table A-IV.

Some VOCs, formaldehyde, ammonia-N, metals, dioxins, and furans were detected in some method blank samples prepared and analyzed concurrently with the project samples. These results were flagged with "B" by the laboratory indicating that the concentration of the analyte within the sample was less than the method-specific factor times the amount of the analyte detected in the associated method blank. For these samples, the reported analyte result was also flagged with a "U" indicating that the concentration of the analyte detected in the sample was most likely due to laboratory contamination and was not indicative of the field sample conditions (Table A-IV).

3.2.6.4 Surrogate Recovery Limit Exceedance

To confirm the efficiency of the purge and trap sample preparation procedure by EPA Methods 8260B and 8260SIM, and the extraction and concentration process by EPA Methods 8270C and 8082, surrogate compounds were added to each sample prior to analysis. The surrogate compound recovery calculated in percentage is presented on each laboratory report for the project sample analyses. The calculated recovery of surrogate compounds for each sample fell within method specific acceptance criteria.

3.2.6.5 Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analyses

Analytical precision and accuracy were evaluated based on Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD) analyses performed concurrently with the project samples. LCS/LCSD analyses are prepared by the addition of a known amount of each target analyte into laboratory pure water using a traceable reference material independent of the instrument calibration materials. LCS/LCSD samples were analyzed to confirm the precision and accuracy of the analytical system calibration.

The percent recovery calculated for each target analyte fell within laboratory specific criteria indicating that the analyses were conducted with acceptable analytical accuracy and precision with some exceptions (Table A-V).

During the quarter, LCS/LCSD percent recoveries were beyond the percent recovery criteria ranges for some SVOCs and radionuclides in some LCS/LCSD samples. The results in the associated samples were qualified with a "J" indicating that the results were estimated if the percent recovery exceeded the acceptance limits for positive results. The non-detected results were qualified with an "R" indicating that the results were rejected because the presence or absence of the analyte could not be verified.

3.2.6.6 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Sample Analyses

Analytical precision and accuracy were evaluated based on the Matrix Spike and Matrix Spike Duplicate (MS/MSD) analyses performed on project samples from each sample delivery group (SDG). After the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability of the analytical systems to identify these analytes within the sample matrix. Due to limitation of sample volume, some SDGs contained reports of

MS/MSD analyses performed on sample matrices from non-project related samples. However, the analysis of these samples concurrently with the project samples provides valuable information on the accuracy of the analyses performed.

The percent recovery calculated for each target analyte fell within laboratory specific criteria with exceptions for some perchlorate and VOCs in some MS samples (Table A-V). The results in the associated samples were qualified with a "J" indicating that the results were estimated if the percent recovery exceeded the acceptance limits for positive results. If the percent recoveries for non-detects exceeded the lower limits, then the results were qualified with a "UJ" as estimated non-detect.

3.2.6.7 Data Qualification of Samples by MECX

Level IV validation of specific samples was performed by MECX, LP of Aurora, Colorado. Results requiring a change in the data qualifier or result value are summarized in Table A-VI.

3.2.6.8 Data Qualification Due to Miscellaneous Issues

Data validation identified additional analytical issues (Table A-VII):

- Methyl ethyl ketone reported in the HAR-11 groundwater sample and chlorobenzene reported in the RD-23 groundwater sample were qualified "R" as rejected because the sample ion spectra did not match the reference spectra.

3.2.6.9 Sample Data Reporting

Laboratory analytical reports contain laboratory specific data qualifiers. When an analysis was performed without dilution, the reporting limit was based on the most recent MDL study conducted by the contract laboratory. The reporting limit values for the dilution analyses were adjusted for the level of dilution performed. Values presented for target analytes detected at concentrations below the reporting limit but above the MDL were flagged with a "J" as estimated values. No corrective action is recommended.

3.2.6.10 Data Qualifiers

The use of the data qualifiers is intended to aid users in their interpretation of the sample results. Laboratory specific data qualifiers were assigned by the laboratories to the reported results in accordance with each laboratory's standard operating procedures. However, some data qualifiers used by the laboratories do not correspond with standard EPA guidance as referenced in this document. The data qualifiers recommended above in accordance with the EPA guidelines should preclude the use of the laboratory specific qualifiers so that comparability of the reported results can be achieved if future analyses are performed at other laboratory facilities.

3.2.6.11 Summary

The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and usable, with the few exceptions noted above. Based on this review, the data usability is 100%, with the few exceptions noted above.

TABLE A-I
SUMMARY OF THIRD QUARTER 2008 SPLIT SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L)		RPD
				Primary	Split	
Chatsworth Formation Wells						
HAR-24	08/11/08	314.0	Perchlorate	189 J	190	NA
HAR-25	08/11/08	314.0	Perchlorate	27.6 J	31	12
OS-17	08/12/08	8260B	VOCs	None detected	None detected	---
RD-05B	08/18/08	8260B	VOCs	None detected	None detected	---
RD-06	08/28/08	8260B	VOCs	None detected	None detected	---
RD-36D	08/15/08	8260B	1,1-Dichloroethene	0.2 J	0.14 U	---
			cis-1,2-Dichloroethene	2	0.15 U	---
			Tetrachloroethene	0.2 J	0.2 U	---
			trans-1,2-Dichloroethene	0.3 J	0.15 U	---
			Trichloroethene	3.9	0.35 J	NA
RD-37	09/09/08	8260B	Acetone	3 U	2.4 J	---
			Trichloroethene	0.1 J	0.16 U	---
RD-43B	08/13/08	8260B	VOCs	None detected	None detected	---
RD-48B	08/13/08	8260B	VOCs	None detected	None detected	---
RD-51C	08/26/08	8260B	Trichloroethene	0.1 J	0.16 U	---
RD-61	08/21/08	8260B	VOCs	None detected	None detected	---
RD-68B	08/14/08	8260B	cis-1,2-Dichloroethene	0.1 U	0.17 J	---
RD-70	08/21/08	8260B	Vinyl Chloride	0.1 J	0.4 U	---
RD-73	09/05/08	314.0	Perchlorate	90	120	NA

See last page of table for notes and abbreviations.

NOTES AND ABBREVIATIONS

1. 314.0 = EPA method 314.0 for perchlorate.

2. 8260B = EPA method 8260B for volatile organic compounds (VOCs).

3. ug/L = Micrograms per liter.

4. RPD = Replicate percent difference. RPDs were calculated only if the detected concentration exceeded the product of five times the method detection limit times the dilution factor.

   $|((X_1 - X_2)/X_{ave})| \times 100$
   X_1 = primary concentration observed;
   X_2 = split concentration observed; and
   X_{ave} = average concentration = $((X_1 - X_2 / 2)$

5. NA = Not applicable. An RPD calculation is not valid since at least one of the laboratories reported a detected concentration less than the product of five times the method detection limit times the dilution factor.

6. (---) = Not applicable. Constituent not detected in one or both samples.

7. J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). For radionuclides, result is less than contract-required MDA and greater than or equal to MDA.

8. U = Not detected.

9. Primary lab = Lancaster Laboratories of Lancaster, Pennsylvania.

10. Split lab = TestAmerica-Denver, Colorado served as the split lab.

TABLE A-II
SUMMARY OF THIRD QUARTER 2008 DUPLICATE SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L) Primary	Duplicate	RPD
Shallow Wells						
ES-27	09/05/08	8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	140	110	24
			Acetone	7 J	7 J	NA
			cis-1,2-Dichloroethene	1 J	2 J	NA
			Trichloroethane	62	72	15
Chatsworth Formation Wells						
HAR-07	08/27/08	8290	Dioxins	None detected	None detected	---
HAR-16	09/04/08	8290	Dioxins	None detected	None detected	---
HAR-17	09/04/08	8290	Dioxins	None detected	None detected	---
HAR-18	08/28/08	314.0	Perchlorate	0.7 U	0.7 U	---
OS-09	08/14/08	314.0	Perchlorate	0.7 U	0.7 U	---
OS-17	08/12/08	8260B	VOCs	None detected	None detected	---
RD-05B	08/18/08	8260B	VOCs	None detected	None detected	---
RD-05C	08/14/08	8260B	Carbon disulfide	0.4 J	0.4 U	---
RD-06	08/28/08	8260B	VOCs	None detected	None detected	---
RD-13	09/03/08	1625M	n-Nitrosodimethylamine	0.005 U	0.005 U	---
RD-36B	08/14/08	8260B	cis-1,2-Dichloroethane	1 J	1 J	NA
			Trichloroethane	99	97	2
RD-36B	08/14/08	8260B	Tetrachloroethene	6	6	0
RD-36D	08/15/08	8260B	1,1-Dichloroethene	0.2 J	0.1 U	---
			cis-1,2-Dichloroethene	2	0.1 U	---
			Tetrachloroethene	0.2 J	0.1 U	---
			trans-1,2-Dichloroethene	0.3 J	0.1 U	---
			Trichloroethene	3.9	0.4 J	NA
RD-37	09/09/08	314.0	Perchlorate	0.7 U	0.7 U	---
		8260B	Trichloroethane	0.1 J	0.1 J	NA
RD-43B	08/13/08	8260B	VOCs	None detected	None detected	---
RD-51C	08/26/08	8260B	Trichloroethene	0.1 J	0.1 J	NA
RD-54A	08/07/08	8260B	1,1-Dichloroethene	2 J	2 J	NA
			cis-1,2-Dichloroethene	49	46	6
			trans-1,2-Dichloroethene	0.9 J	0.8 U	---
			Trichloroethene	7	8	13
RD-55B	08/27/08	8260B	1,1-Dichloroethene	0.3 J	0.3 J	NA
			Acetone	87	84	4
			Chloromethane	0.3 J	0.2 U	---
			cis-1,2-Dichloroethene	15	15	NA
			m+p-Xylene	0.3 J	0.3 J	NA
			o-Xylene	0.2 J	0.2 J	NA
			Toluene	0.9	0.9	0
			trans-1,2-Dichloroethene	0.1 J	0.1 J	NA
			Trichloroethene	21	21	NA
			Vinyl chloride	0.1 J	0.1 J	NA
RD-58A	09/02/08	8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	4.9	0
			cis-1,2-Dichloroethene	7.6	7.6	0
			Trichloroethene	93	97	4
RD-61	08/21/08	8260B	VOCs	None detected	None detected	---
RD-67	09/03/08	1625M	n-Nitrosodimethylamine	0.005 U	0.005 U	---
RD-68B	08/14/08	8260B	VOCs	None detected	None detected	---
RD-70	08/21/08	8260B	Vinyl chloride	0.1 J	0.1 J	---

See last page of table for notes and abbreviations.

TABLE A-II
SUMMARY OF THIRD QUARTER 2008 DUPLICATE SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L) Primary	Duplicate	RPD
WS-06	09/09/08	8260B	1,1-Dichloroethene	0.4 J	0.3 J	NA
			cis-1,2-Dichloroethene	130	130	0
			trans-1,2-Dichloroethene	12	12	0
			Trichloroethene	5.1	5.3	4
			Vinyl chloride	6.7	6.8	1
WS-09A	08/20/08	314.0	Perchlorate	0.7 U	0.7 U	---
		8260B	1,1-Dichloroethene	0.1 J	0.1 J	NA
			Acetone	3 U	3 J	---
			cis-1,2-Dichloroethene	18	20	11
			Toluene	0.1 U	0.2 J	---
			trans-1,2-Dichloroethene	1.4	1.6	13
			Trichloroethene	4.1	4.1	0
			Vinyl chloride	0.2 J	0.2 J	NA

See last page of table for notes and abbreviations.

NOTES AND ABBREVIATIONS

1. 1625M = EPA method 1625M for n-Nitrosodimethylamine (NDMA).

2. 314.0 = EPA method 314.0 for perchlorate.

3. 8260B = EPA method 8260B for volatile organic compounds (VOCs).

4. 8290 = EPA method 8290 for dioxins and furans.

5. ug/L = Micrograms per liter.

6. RPD = Replicate percent difference. RPDs were calculated only if the detected concentration exceeded the product of five times the method detection limit times the dilution factor.

   = $\left|((X_1 - X_2)/X_{ave})\right| \times 100$
   X_1 = primary concentration observed;
   X_2 = split concentration observed; and
   X_{ave} = average concentration = $((X_1 - X_2 / 2)$

7. NA = Not applicable. An RPD calculation is not valid since at least one of the laboratories reported a detectable concentration less than the product of five times the method detection limit times the dilution factor.

8. (---) = Not applicable. Constituent not detected in one or both samples.

9. J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

10. U = Not detected.

11. Primary and duplicate VOC samples were analyzed by Lancaster Laboratories of Lancaster, Pennsylvania. Primary and duplicate NDMA samples were analyzed by Weck Laboratories of City of Industry, California. Primary and duplicate dioxin and furan samples were analyzed by TestAmerica of Knoxville, Tennessee.

TABLE A-III
SUMMARY OF THIRD QUARTER 2008 DATA QUALIFICATION DUE TO PRESERVATION / HOLDING TIME EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: Qualification
Inorganics								
1109871	HT	RD-98	09/11/08	300.0	Nitrate (as NO3)	4.3	mg/L	J
Hydrazines, Surfactants								
1109589	HT	PZ-041	09/10/08	425.1	Surfactants	0.035	mg/L	UJ

Notes:
1. J = Estimated value as a result of holding time and/or preservation exceedance.
2. UJ = Not detected. Estimated detection limit as a result of holding time and/or preservation exceedance.
3. HT = Holding time.
4. R = Rejected result.
5. If preservation and/or holding time was exceeded, qualify associated target analyte positive results as "J" and non-detected analytes as "UJ".
If preservation and/or holding time was grossly exceeded, qualify associated target analyte positive results as "J" and non-detected analytes as "R".

TABLE A-IV
SUMMARY OF THIRD QUARTER 2008 DATA QUALIFICATION DUE TO BLANK SAMPLE CONTAMINATION
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Blank Sample Identification	Blank Sample Type	Sample Date	Lab Report	Target Analyte(s) Detected in the Blank	Concentration	Corrective Action: Flag Associated Field Sample results with a "U" if less than or equal to this value	Affected Field Samples
Metals (mg/L)							
082615713002	Method	09/11/08	1109871	Mercury	0.000073 J	0.00073	RD-98
Dioxins and Furans (pg/L)							
8239224	Method	08/18/08-08/21/08	H8H220283	1,2,3,7,8-PeCDF	1.0 J	5	HAR-14
			H8H220277, H8H220283	OCDD	3.7 J	18.5	HAR-15, RD-20
				OCDF	3.7 J	18.5	HAR-15, RD-20
8253166	Method	09/04/08	H8I050216, H8I050223	OCDD	7.7 J	38.5	ES-21, HAR-11, HAR-16 (dup)
Volatile Organic Compounds (ug/L)							
RD-43B_081308_19_L	Field	08/13/08	1105458	Carbon disulfide	0.6	3	RD-43B (prim)
8235147	Method	08/13/08	D8H150245	Methylene chloride	0.53 J	5.3	RD-48B (split), RD-68B (split-trip)
8241059	Method	08/18/08-08/21/08	D8H200231, D8H220272	Acetone	2 J	20	RD-05B (split, split-trip), RD-61 (split), RD-70 (split,split-trip)
				Methylene chloride	0.32	3.2	RD-05B (split-trip), RD-36D (split-trip), RD-61 (split), RD-70 (split-trip)
8249056	Method	08/26/08	D8H290324	Methylene chloride	0.89 J	8.9	RD-06 (split), RD-51C (split,split-trip)
			Trip blank analyzed by primary laboratory.				
Semi-Volatile Organic Compounds (ug/L)							
RD-41B_082808_78_W	Trip	08/28/08	8082931	n-Nitrosodimethylamine	0.031	0.16	HAR-18, RD-01
Formaldehyde and Inorganic Constituents of Concern (mg/L)							
08241691401A	Method	08/19/08-08/26/08	1106202, 1107263	Ammonia-N	0.035 J	0.175	RD-49C, RD-51C, RD-55A
082420014A	Method	08/27/08-08/28/08	1107481, 1107482, 1107653, 1101654	Formaldehyde	12 J ug/L	60 ug/L	HAR-07, HAR-08, HAR-18 (prim), RD-41A, RD-41B, RD-49B, RD-55B

See last page of table for notes and abbreviations.

TABLE A-IV
NOTES AND ABBREVIATIONS

1.	mg/L	=	Milligrams per liter.
2.	pg/L	=	Picograms per liter.
3.	ug/L	=	Micrograms per liter.
4.	prim	=	Primary sample.
5.	dup	=	Duplicate sample.
6.	Field	=	Field equipment blank.
7.	Method	=	Method blank.
8.	split	=	Split sample.
9.	split-trip	=	Trip blank analyzed by split laboratory.
10.	Trip	=	Trip blank analyzed by primary laboratory.
11.	J	=	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).
12.	U	=	Not detected; numerical value represents the Method Detection Limit for that analyte.
13.	OCDD	=	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin
	OCDF	=	1,2,3,4,6,7,8,9-Octachlorodibenzofuran
	1,2,3,7,8-PeCDF	=	1,2,3,7,8-Pentachlorodibenzofuran

TABLE A-V
SUMMARY OF THIRD QUARTER 2008 DATA QUALIFICATION DUE TO LCS/LCSD, MS/MSD RECOVERY EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Perchlorate

MS/MSD or LCS/LSCD Sample Identification	Sample Type	Lab Report	Target Analyte(s) Outside of Recovery Limits	% Recovery Criteria	% Recovery	Affected Field Samples	Date Sampled	Corrective Action: Perchlorate Qualification
08233621701A-MS	MS	1104901	Perchlorate	80-120	78	HAR-24, HAR-25	08/11/08	J
08240621701A-MS	MS	1106202	Perchlorate	80-120	69	RD-49C, RD-51B	08/19/08	UJ

Semi-Volatile Organic Compounds (SVOCs)

MS/MSD or LCS/LSCD Sample Identification	Sample Type	Lab Report	Target Analyte(s) Outside of Recovery Limits	% Recovery Criteria	% Recovery	Affected Field Samples	Date Sampled	Corrective Action: SVOC Qualification
08246WAB026	LCS/LCSD	1107653, 1107654	N-Nitrosodimethylamine	47-80	43, 44	HAR-18, RD-01, RD-41A, RD-41B	08/28/08	R
08246WAB026	LCS/LCSD	1107653, 1107654	Dimethylphthlate	46-127	21, 25	HAR-18, RD-01, RD-41A, RD-41B	08/28/08	R
08246WAB026	LCS/LCSD	1107653, 1107654	Diethylphthlate	79-109	70, 67	HAR-18, RD-01, RD-41A, RD-41B	08/28/08	R

Volatile Organic Compounds (VOCs)

MS/MSD or LCS/LSCD Sample Identification	Sample Type	Lab Report	Target Analyte(s) Outside of Recovery Limits	% Recovery Criteria	% Recovery	Affected Field Samples	Date Sampled	Corrective Action: VOC Qualification
Y082532AA	MS	1108821	cis-1,2-Dichloroethene	83-126	165	ES-03, ES-17, ES-21, ES-22, HAR-04	09/05/08	J

Radionuclides

MS/MSD or LCS/LSCD Sample Identification	Sample Type	Lab Report	Target Analyte(s) Outside of Recovery Limits	% Recovery Criteria	% Recovery	Affected Field Samples	Date Sampled	Corrective Action: Radiological Qualification
LCS R806177-02	LCS	8943	Gross Alpha	71 - 129	134	RD-98	06/26/08	J

See last page of table for notes and abbreviations.

TABLE A-V
NOTES AND ABBREVIATIONS

1.	LCS	=	Laboratory control standard.
2.	LCSD	=	Laboratory control standard duplicate.
3.	MS	=	Matrix spike.
4.	MSD	=	Matrix spike duplicate.
5.	J	=	Estimated value. Analyte detected at a level less than the Reporting Limit(RL) and greater than or equal to the Method Detection Limit (MDL).
6.	UJ	=	Not detected. Estimated detection limit as a result of quality control recoveries exceeding the acceptance limit range.
7.	R	=	The analyte result was rejected; presence or absence of the analyte cannot be verified.
8.	Perchlorate Qualification	=	If % Recovery (% Rec) is less than the lower acceptance limit and >10%, the associated target analyte is qualified "J" for positive results and "UJ" for non-detects. If the % Rec is <10%, positive results are qualified "J" and non-detects are qualified "R". If % Rec is greater than the 120%, the associated target analyte is qualified "J" for positive results. If % Rec is greater than 150%, the associated target analyte is qualifier "R", and not qualified for non-detects.
9.	SVOC / VOC Qualification	=	If the LCS % Recovery is greater than the upper acceptance limit, associated target analyte positive results are qualified “J” and non-detects should not be qualified. If the LCS % Recovery is less than the lower acceptance limit associated target analyte positive results are qualified “J” and non-detects are qualified “R”. If the MS/MSD is from a project sample and the % Recovery greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD % Recovery is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified “J” and non-detects are qualified “UJ”. If the MS/MSD % Recovery is less than 10%, associated target analyte positive results are qualified “J” and non-detects are qualified “R”.
10.	Radiological Analyses	=	If the normalized difference is between 1.96 and 2.58 or -1.96 and -2.58, qualify sample results as “J”. Qualify results less than minimal detectable concentration (MDC) as “J” if the normalized difference shows a negative bias. If the normalized difference is greater than 2.58 or less than -2.58, qualify sample results as “R”. Normalized difference = (LCSmeasured - LCS expected) / ((TPUmeasured)^2 + (TPUexpected)^2)^1/2 TPU = Total Propagated Uncertainty.

TABLE A-VI
SUMMARY OF THIRD QUARTER 2008 DATA QUALIFICATION OF SAMPLES BY MECX
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Date	Sample Type	Analyte	Data Validation Issues	Qualified Result	Project and Lab Qualifier Codes	Units	Corrective Action: MECX Validation Qualifier/ Result Value Change	Lab
Chatsworth Formation Wells									
HAR-20	08/20/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated trip blank.	0.055		ug/L	U	Weck
RD-49C	08/19/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated trip blank.	0.006		ug/L	U	Weck

NOTES:
1. MECX = MECX, LP of Aurora, Colorado.
2. ug/L = Micrograms per liter.
3. U =Not detected.
4. Weck = Weck Laboratories of City of Industry, California.

Note: Results validated by MECX that did not require qualification are not listed in this table.

TABLE A-VII
SUMMARY OF THIRD QUARTER 2008 DATA QUALIFICATION DUE TO MISCELLANEOUS ISSUES
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Date	Sample Type	Analyte	Data Validation Issues	Qualified Result	Project and Lab Qualifier Codes	Units	Corrective Action: Validation Qualifier/ Result Value Change	Lab
Shallow Wells									
HAR-11	09/04/08	Primary	Methyl ethyl ketone	Mass spectral ions do not match reference spectrum for methyl ethyl ketone, compound incorrectly identified.	1.2	J	ug/L	R	Lan
Chatsworth Formation Wells									
RD-23	08/07/08	Primary	Chlorobenzene	Mass spectral ions do not match reference spectrum for chlorobenezene, compound incorrectly identified.	0.8	J	ug/L	R	Lan

NOTES:
1. Lan = Lancaster Laboratories of Lancaster, Pennsylvania.
2. ug/L = Micrograms per liter.
3. J = Estimated value. For Project and Lab Qualifiers, J indicates the analyte was detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).
4. R = Rejected result.